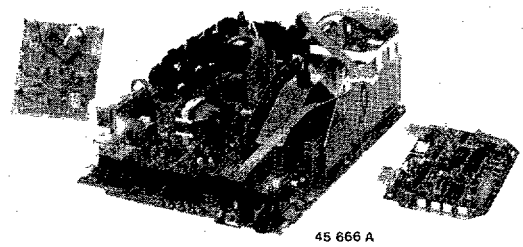
Colour television — Chassis GR2.1 AB

Service
Service
Service



45 666 A

Service Manual

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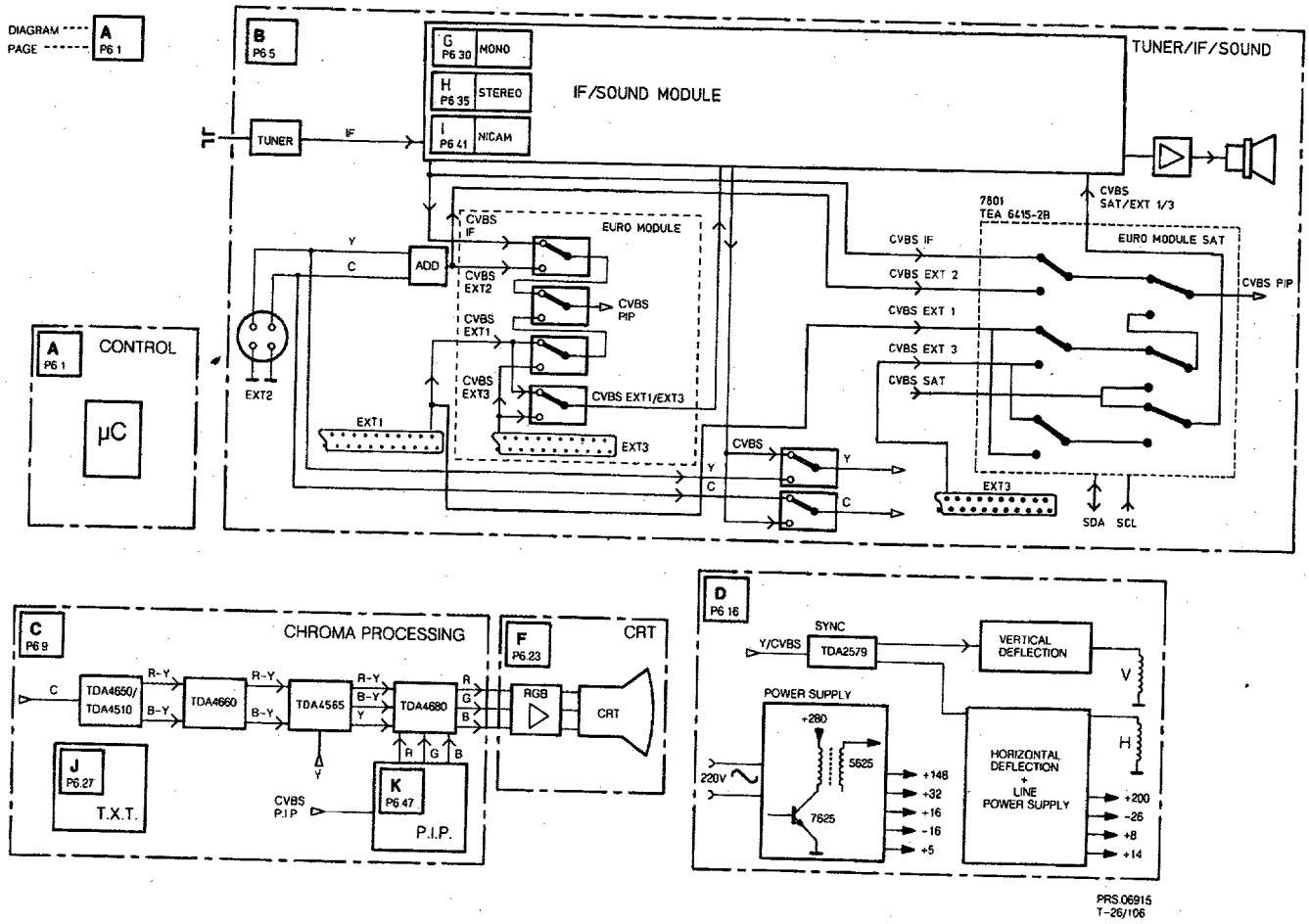
Block diagram



Technical specification

Mains voltag	:220 - 240 V (±10%)
Mains frequency	:50 Hz (± 10%)
Aerial input impedance	:75Ω - coax
Minimum aerial voltage	:40µV
Maximum aerial voltage	:32mV
Pull-in range colour synchronization	:±300Hz
Pull-in range horizontal synchronization	:±300Hz

Local operation functions:

P +; P -; ◿ +; ◿ -; install

Programmes: 0-59
VCR operation on programmes: 0-59

Indications:

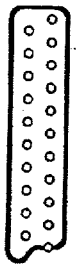
- On Screen Display (OSD)

- LED: - standby (red)
  - operation (green)
  - RC5 reception (flashing yellow)
  - internal fault in µP (flashing)

Connection facilities

1. Specification of the terminal sockets

EXT1



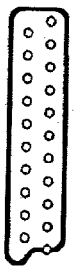
1 - Audio ⊖ R (0,5V_{RMS} ≤ 1kΩ)
2 - Audio ⊕ R (0,2 - 2V_{RMS}; 0,5 V_{nom}; ≥ 10kΩ)
3 - Audio ⊖ L (0,5V_{RMS} ≤ 1kΩ)
4 - Audio ⊥
5 - Blue ⊥
6 - Audio ⊕ L (0,2 - 2V_{RMS}; 0,5 V_{nom}; ≥ 10kΩ)
7 - Blue ⊕ (0,7V_{pp}/75Ω)
8 - RC5 ⊖ (500-800mV_{pp}) + CVBS-Status 1 ⊕ (0-2V: int.; 9,5-12V: ext.)
9 - Green ⊥
10 - -
11 - Green ⊕ (0,7V_{pp}; 75Ω)
12 - -
13 - Red ⊥
14 - -
15 - Red ⊕ (0,7V_{pp}; 75Ω)
16 - RGB-Status (0-0,4V: int. 1-3V ext. 75Ω)
17 - CVBS ⊖ ⊥
18 - CVBS ⊕ ⊥
19 - CVBS ⊖ (1V_{pp}/75Ω)
20 - CVBS ⊕ (1V_{pp}/75Ω)
21 - Earth screen

EXT2

1 - ⊥
2 - ⊥
3 - Y ⊕ (1V_{pp}; 75Ω)
4 - C ⊕ (1V_{pp}; 75Ω)

2x ◎ CINCH Audio ⊕ L+R (0,2-2V_{RMS}; 0,5 V_{nom} ≥ 10kΩ)

EXT3



1 - Audio ⊖ R (0,5V_{RMS}; ≤ 1kΩ)
2 - Audio ⊕ R (0,2 - 2V_{RMS}; 0,5 V_{nom}; ≥ 10kΩ)
3 - Audio ⊖ L (0,5V_{RMS}; ≤ 1kΩ)
4 - Audio ⊥
5 -
6 - Audio ⊕ L (0,2 - 2V_{RMS}; 0,5 V_{nom}; ≥ 10kΩ)
7 - -
8 - CVBS status 3 ⊖ (0-2V: int.; 9,5-12V: ext.)
9 - -
10 - -
11 - -
12 - -
13 - -
14 - -
15 - -
16 - -
17 - CVBS ⊖ ⊥
18 - CVBS ⊕ ⊥
19 - CVBS ⊖ (1V_{pp}/75Ω)
20 - CVBS ⊕ (1V_{pp}/75Ω)
21 - Earth screen

Audio out

2x ◎ CINCH Audio ⊖ L+R (0,5V_{RMS}; ≤ 1kΩ)

Front

◎ 3.5mm ≥ 8Ω

2. Connecting equipment

Depending on the type of TV set, a variety of equipment can be connected. The exact number of pieces of equipment depends on the number of connectors on the back of the TV set (EXT1, 2 or 3). The wiring diagram in Fig. 2.1 shows which kinds of equipment can be connected. The wiring diagram shows the TV set with the maximum number of connectors possible for the GR2.1 chassis.

An RGB source (e.g. laserdisc player) can only be connected to EXT1. In order to switch the TV set to RGB operation, this RGB source must generate both a CVBS status signal at pin 8 and an RGB status signal at pin 16 of the euroconnector. It is not possible to switch the equipment to EXT1 in RGB operation using the remote control.

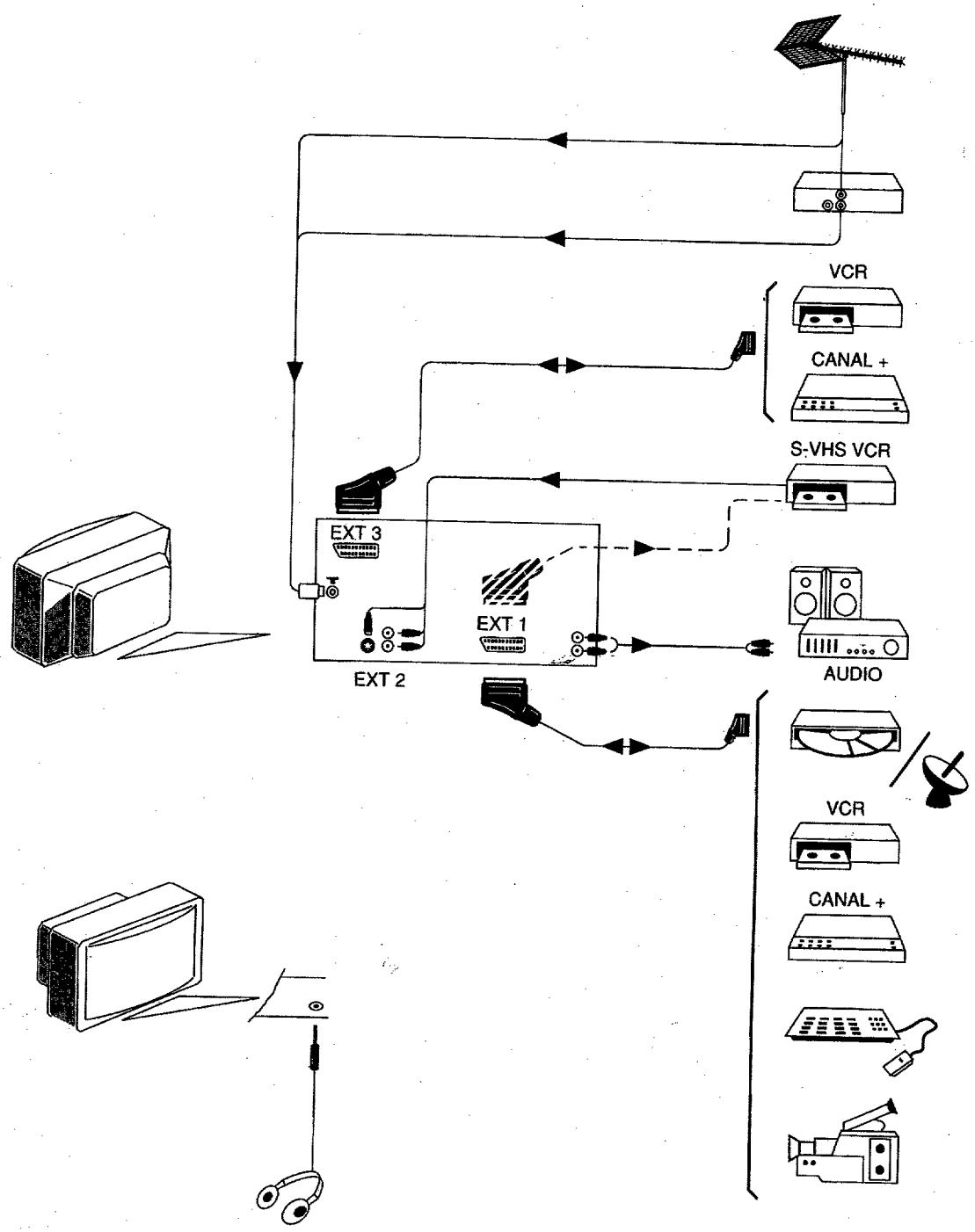


Fig. 2.1

Warnings

1. Safety regulations require that the unit should be returned in its original condition and that components identical to the original components are used. The safety components are indicated by the symbol ▲.
2. In order to prevent damage to ICs and transistors, all high-voltage flashovers must be avoided. In order to prevent damage to the picture tube, it should be discharged using the method shown in Fig.3.1. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is OV (after approx. 30s).
3. **ESD**

   All ICs and many other semiconductors are sensitive to electrostatic discharges (ESD). Careless handling during repair can drastically shorten their life. Make sure that during repair you are connected by a pulse band with resistance to the same potential as the earth of the unit. Keep components and tools also at this same potential.
4. When repairing a unit, always connect it to the mains voltage via an isolating transformer.
5. Be careful when taking measurements in the high-voltage section and on the picture tube.
6. Never replace modules or other components while the unit is switched on.
7. It is recommended that safety goggles are worn when replacing the picture tube.
8. When making settings, use plastic rather than metal tools.
   This will prevent any short circuits and the danger of a circuit becoming unstable.
9. After repair the wiring should be fastened once more in the cable clamps for this purpose.
10. In order to prevent measuring errors, the heat sinks should not be used as reference points for measurements.
    The heat sink for the sound output amplifier (next to the channel selector) is connected to the -16 or -12 volts.
11. Together with the deflection unit and any multipole unit, the flat square picture tubes used form an integrated unit. The deflection and the multipole units are set optimally at the factory. Adjustment of this unit during repair is therefore not recommended.
12. The high-voltage cable in 21" units is glued in the line output transformer. This can therefore not be replaced.

Notes

1. The cold chassis direct voltages and oscillograms should be measured with regard to the tuner earth (⊥). Voltages on the line mains side of the SOPS transformer 5625 should be measured with respect to (⊥ϟ).
2. The direct voltages and oscillograms given in the diagrams should be measured in the service default mode (see section 9). A colour bar signal, modulated on a picture carrier wave of 475.25 MHz, should be used as the video signal. A 1 kHz signal should be used for the sound (for all systems).
3. Where necessary, the oscillograms and direct voltages are measured with (⊓) and without aerial signal(⊼). Voltages in the power supply section are measured both for normal operation (⏻) and in standby (⏻). These values are indicated by means of the appropriate symbols.
4. The picture tube PCB has printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.
5. The semiconductors indicated in the circuit diagram and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.
6. The connectors used for the modules (board to board) are gold-plated and should only be replaced by the same type.
7. In the case of fault finding and/or repair to the teletext module, the accessibility of the circuit and the components can be increased by using extension cards.
   The order numbers of these extension cards are:
   * 6 times: 4822 395 30259
   * 8 times: 4822 214 31402
8. Both multisystem and single system units are mentioned in this documentation.
   The term multisystem unit is used to refer to a unit that is suitable for the reception of PAL BGI and SECAM BGLL' systems.
   The term single system unit is used to refer to all other units (such as PAL BG, PAL/SECAM BG and PAL I units).
9. Blackline units can be recognized by the thick, protected high-voltage cable. Non-blackline units have a thin, unprotected high-voltage cable.

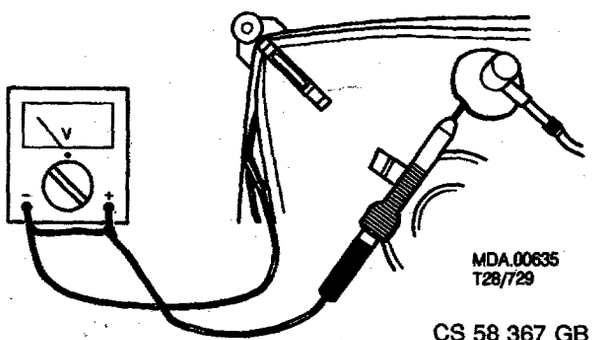


Fig. 3.1

Mechanical instructions

1. Removing the back plate

It is only possible to remove the back plate after removing the screws on the top, side, possibly on the underneath **and possibly under the EXT 3 connection** (see Fig. 4.1). In the case of subwoofer units, the subwoofer speaker on the carrier panel should also be unplugged.

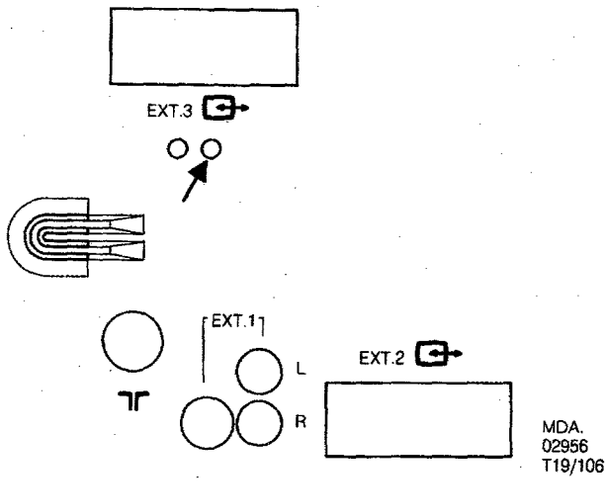


Fig. 4.1

2. Service position 1

Service position for module service and to measure test points
Unlock the chassis after the cables of the degaussing coil and any PIP module have been disconnected, and pull it backwards until all test points are accessible (see Fig. 4.2).
In order to make the tuner and the IF/sound module accessible, the bracket above these modules can be removed (see Fig. 4.3). With the exception of one fault message, the unit continues to function normally when the PIP module is not connected.

3. Service position 2

Service position for repair
Place the chassis on the heat sink on the tuner side after service position 1 is reached (see Fig. 4.4).
Warning: make sure that the heat sink of the sound output amplifier does not form a short circuit with the raster/line heat sink if the bracket of the euromodule has been removed!

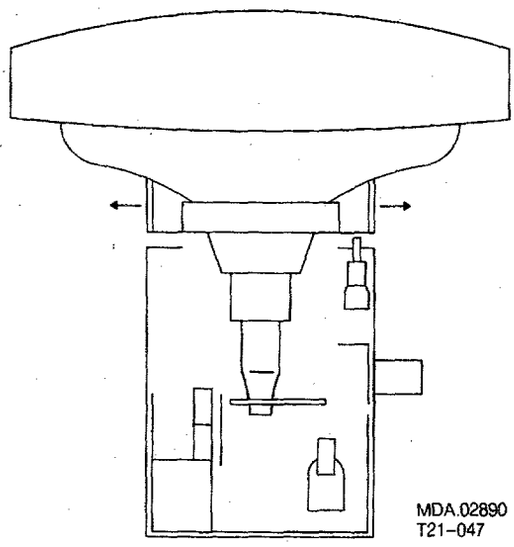


Fig. 4.2

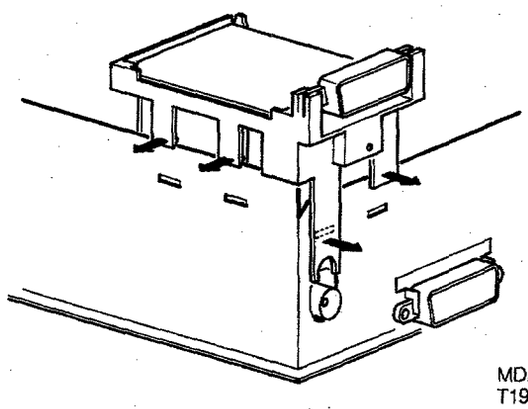


Fig. 4.3

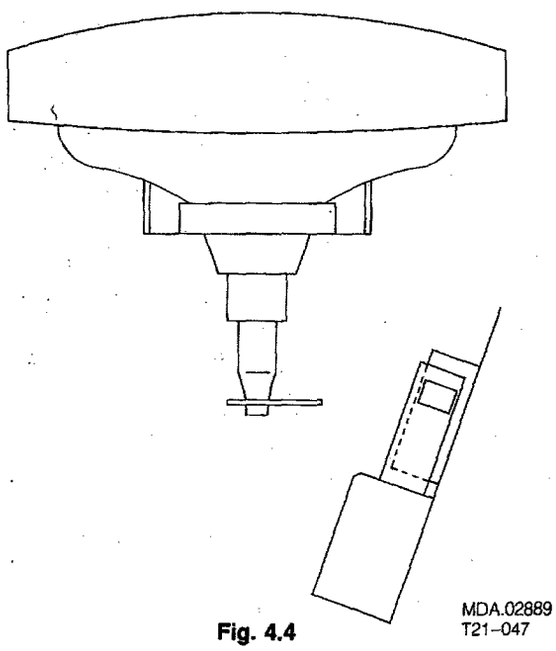
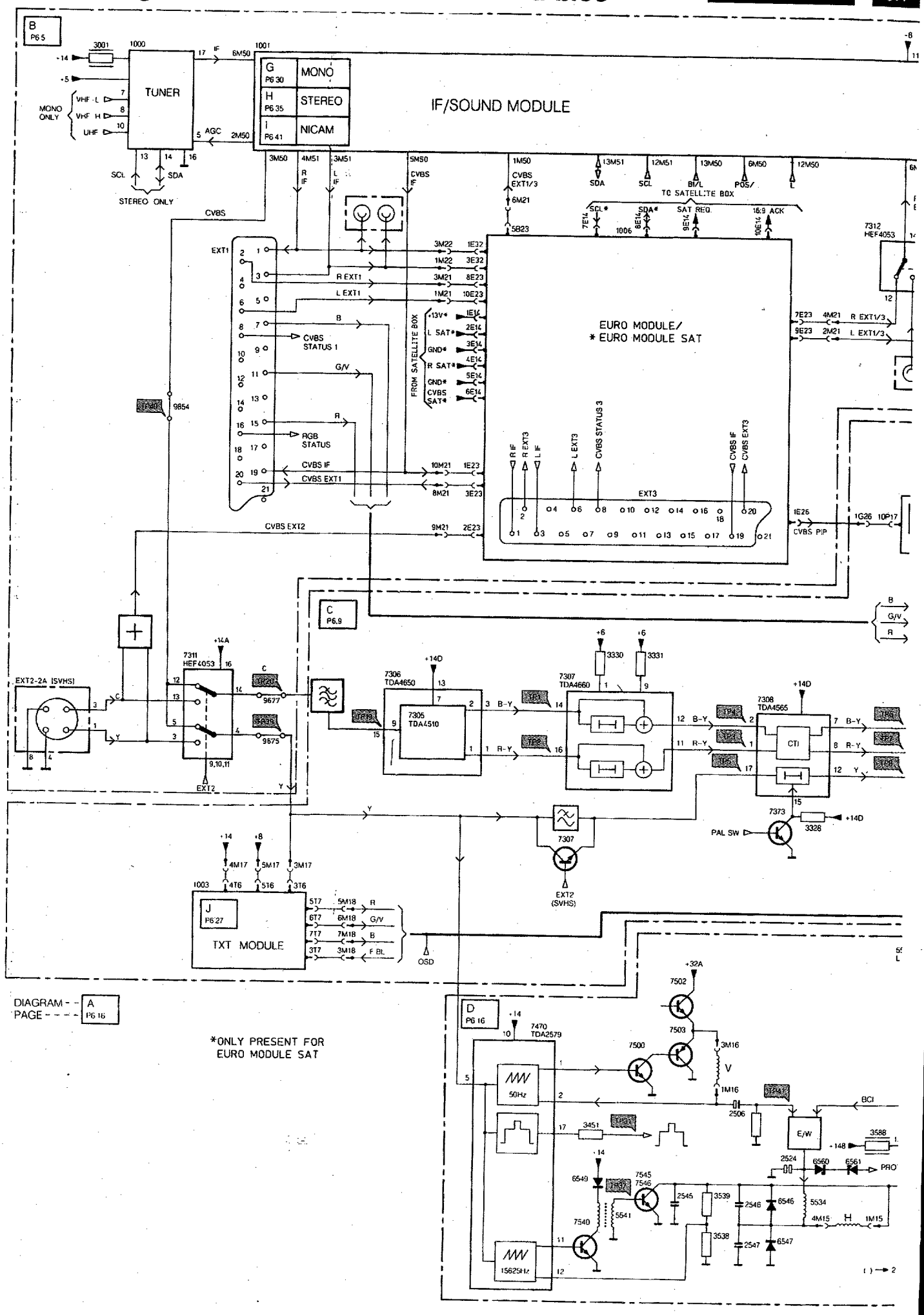
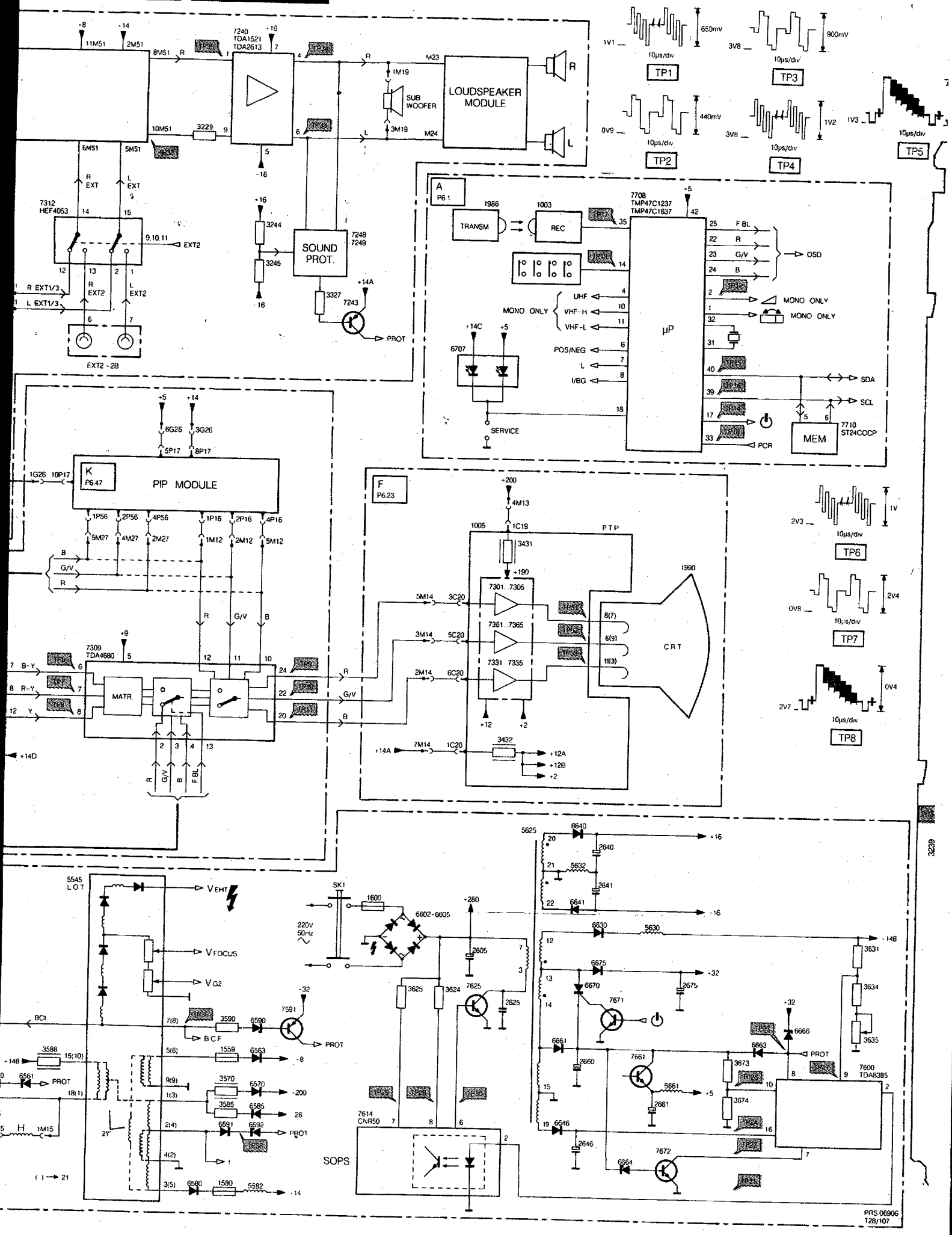
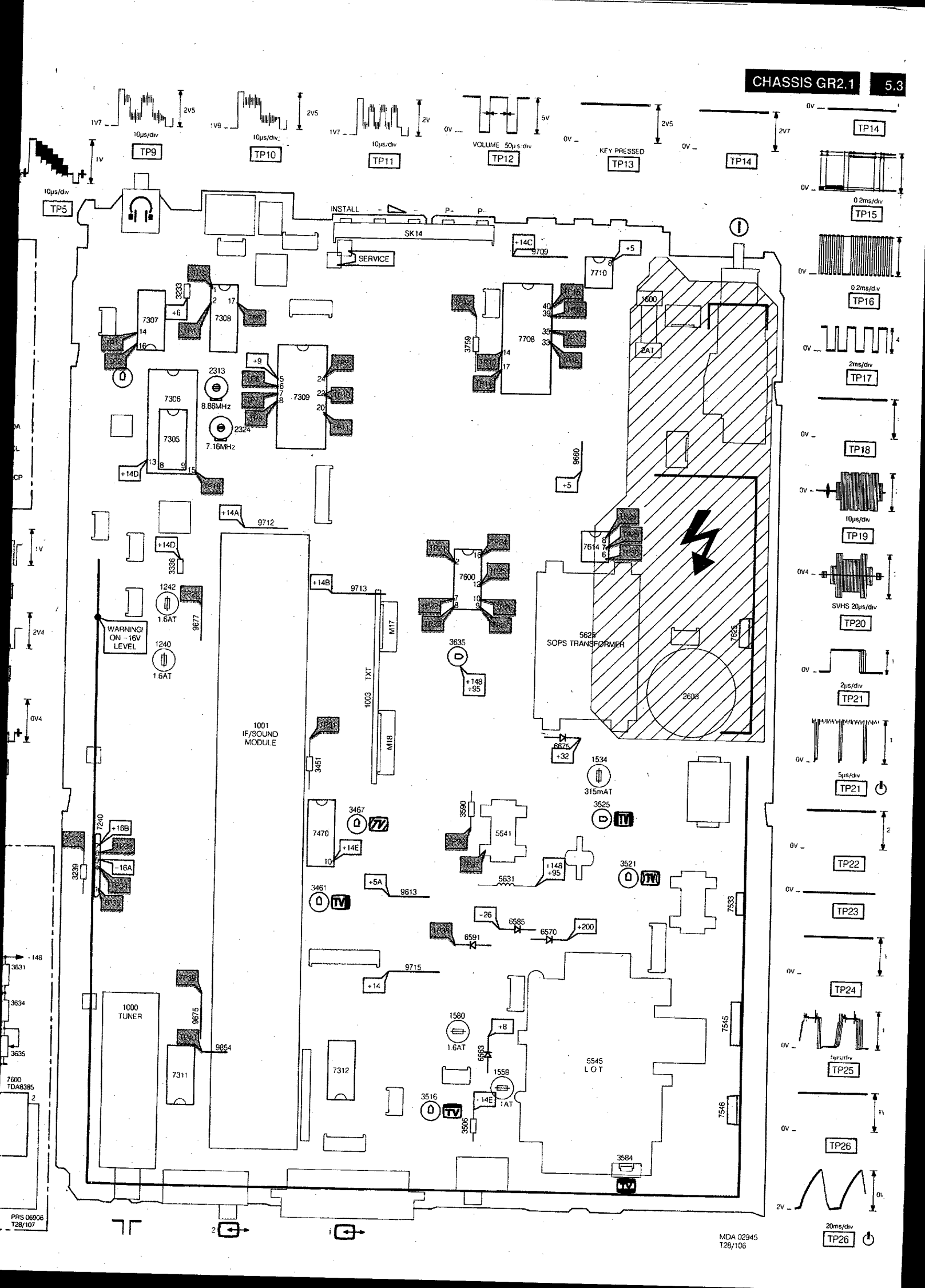


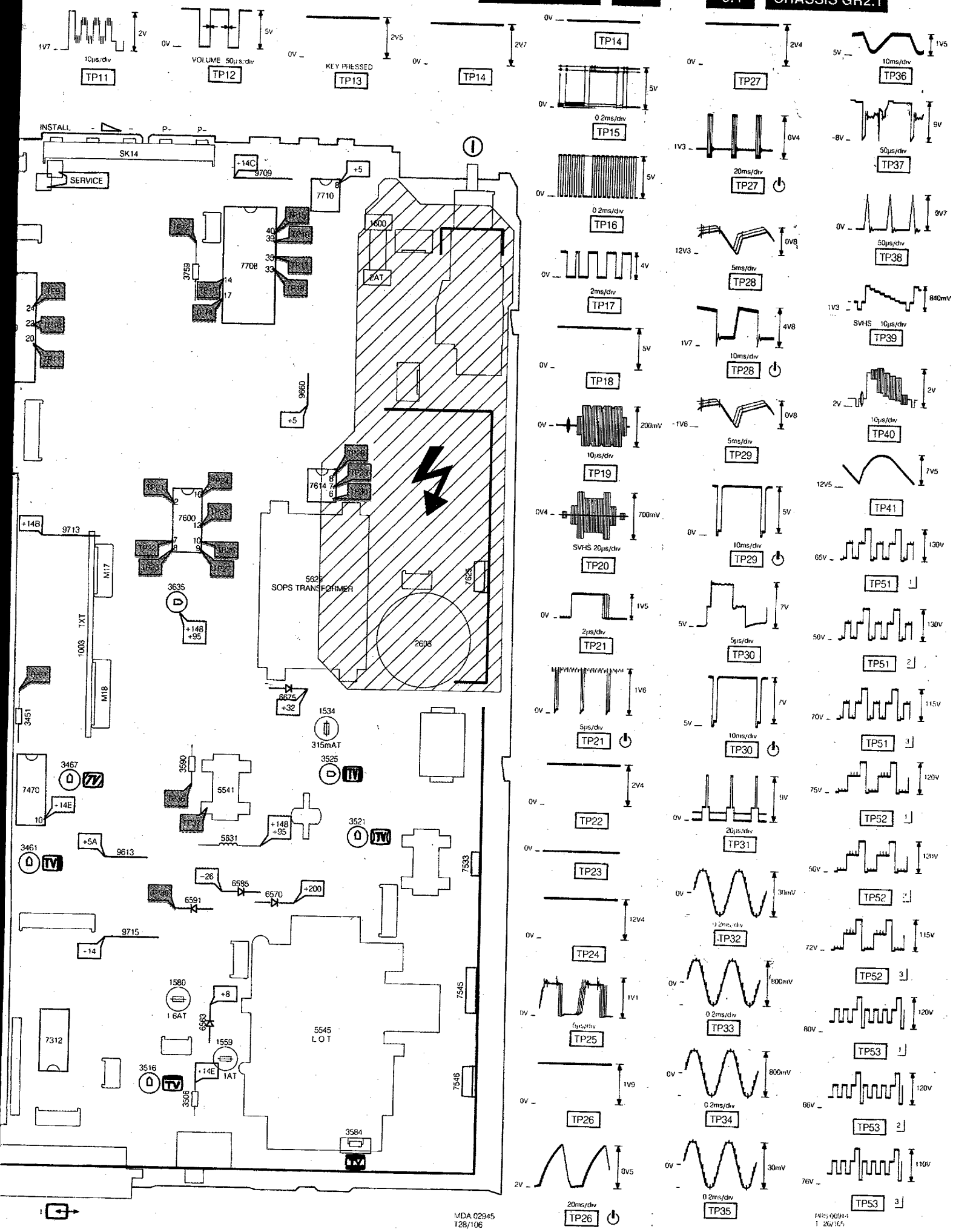
Fig. 4.4

Blockdiagram / Blockschaltbild / Schéma-bloc



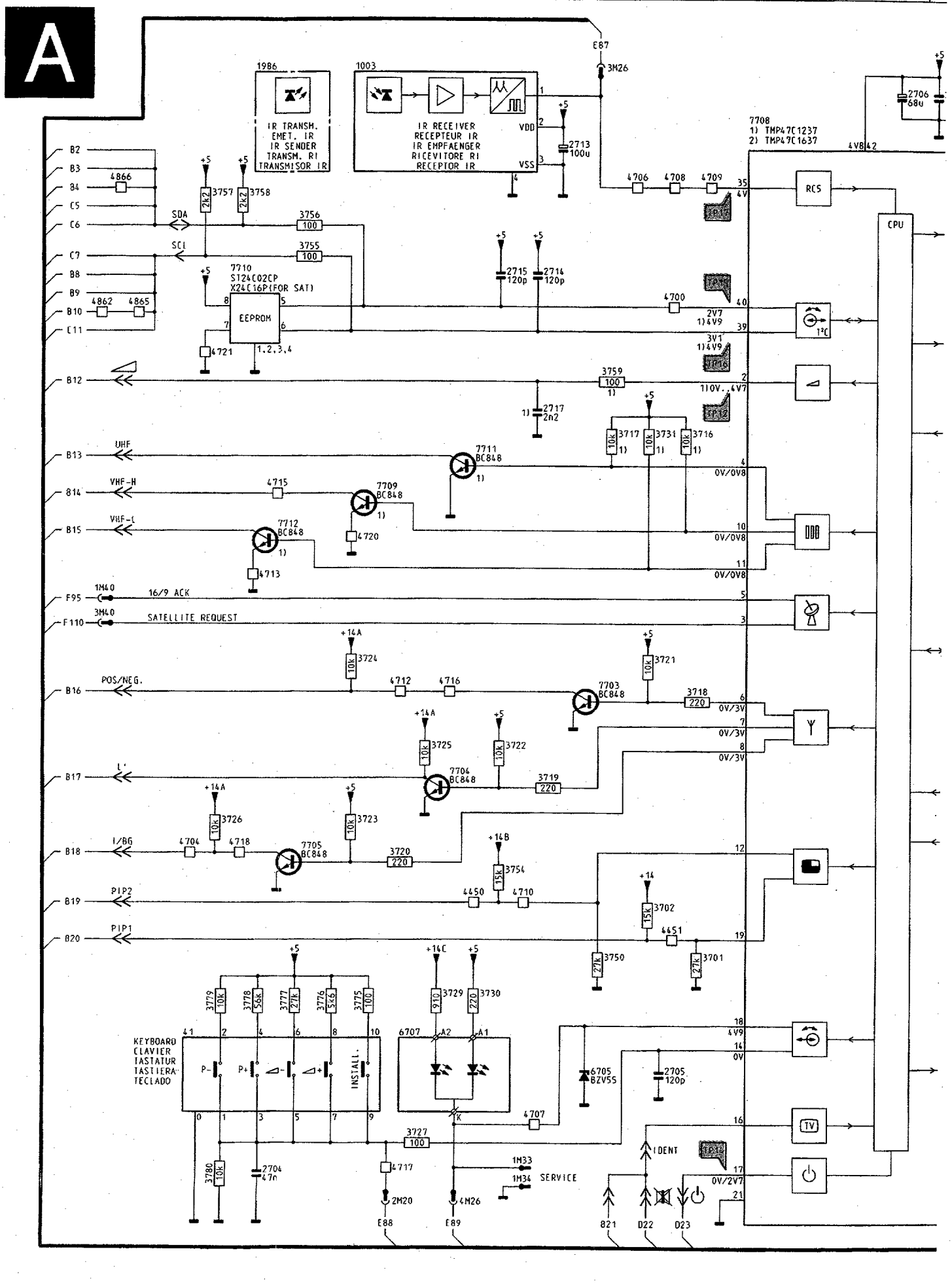

LOUDSPEAKER MODULE
SUB WOOFER
SOUND PROT.
TRANSM
REC
μP
MEM
PIP MODULE
MATR.
CRT
PTP
SOPS
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
OSD
MONO ONLY
SDA
SCL
POR
PROT
SERVICE
EXT2
VEHT
VFOCUS
VG2
BCI
BCF
220V 50Hz
PRS 06906 128/107


TP5
TP9
TP10
TP11
TP12
TP13
TP14
TP15
TP16
TP17
TP18
TP19
TP20
TP21
TP22
TP23
TP24
TP25
TP26
VOLUME 50µs/div
KEY PRESSED
INSTALL
SERVICE
SK14
1001 IF/SOUND MODULE
1000 TUNER
5545 LOT
5625 SOPS TRANSFORMER
WARNING! ON −16V LEVEL
8.86MHz
7.16MHz
315mAT
1.6AT
2AT
PRS 06906 T28/107
MDA 02945 T28/106

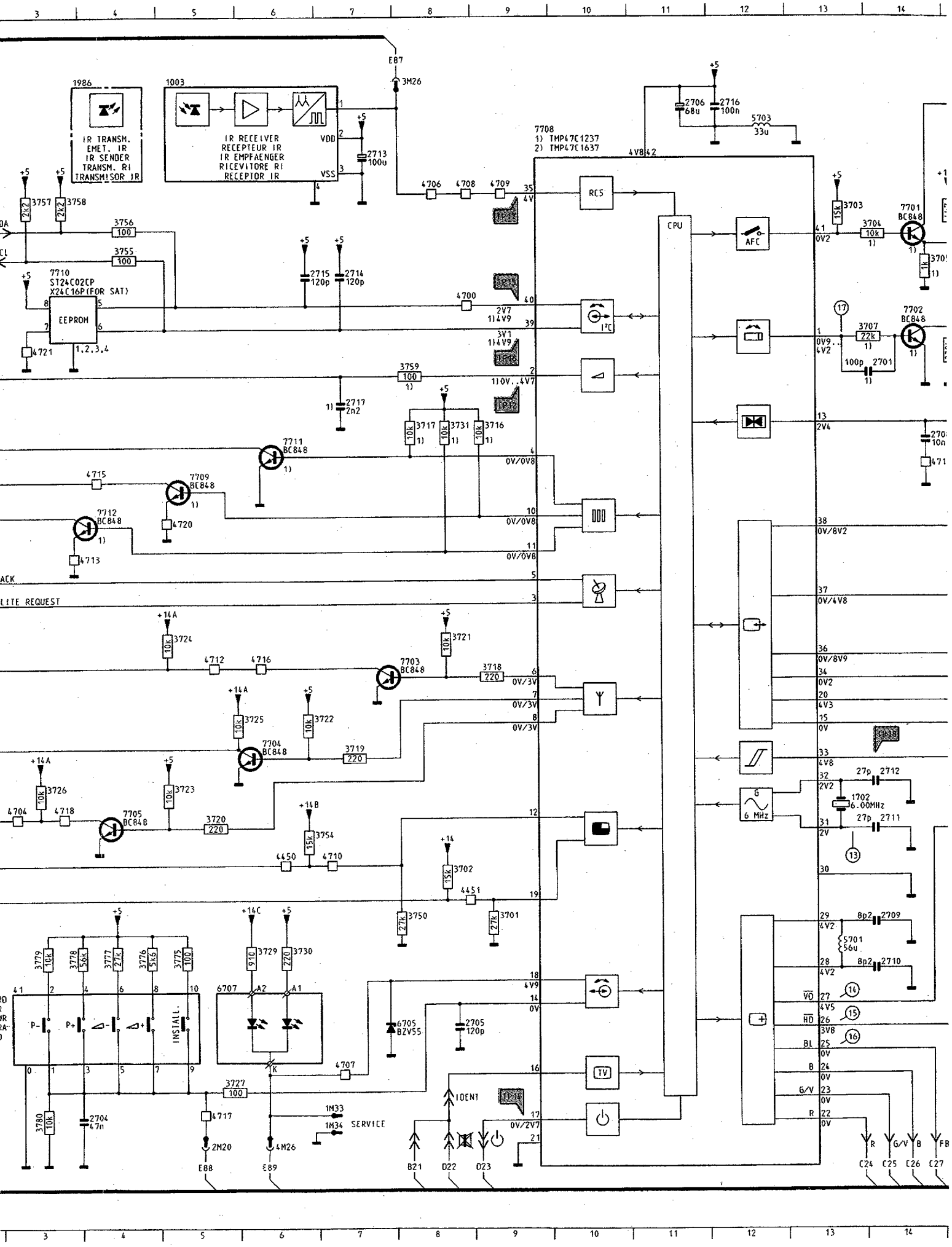


MDA 02945
T28/106

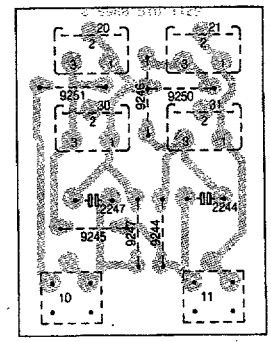
PRS 06914
1 26/165

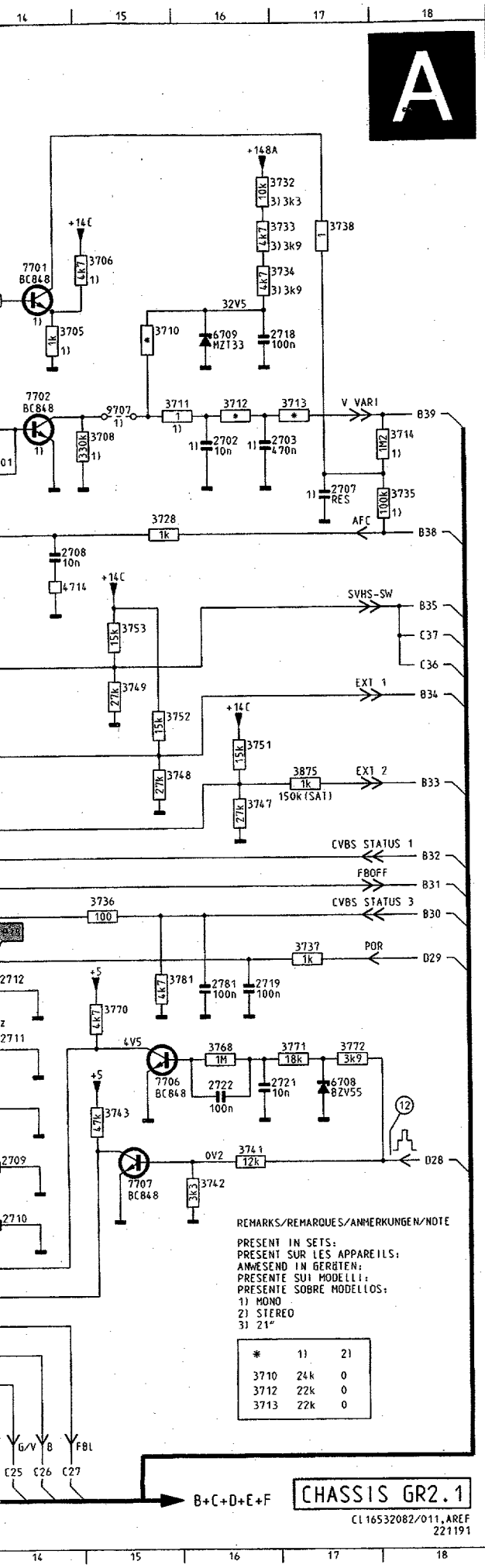

A
IR TRANSM.
EMET. IR
IR SENDER
TRANSM. RI
TRANSMISOR IR
IR RECEIVER
RECEPTEUR IR
IR EMPFAENGER
RICEVITORE RI
RECEPTOR IR
VDD
VSS
SDA
SCL
EEPROM
ST24C02CP
X24C16P(FOR SAT)
CPU
RCS
I²C
UHF
VHF-H
VHF-L
16/9 ACK
SATELLITE REQUEST
POS/NEG.
PIP2
PIP1
KEYBOARD
CLAVIER
TASTATUR
TASTIERA
TECLADO
P-
P+
INSTALL.
IDENT
SERVICE

Controls / Bedienung / La Commande



Loudspeaker module
Lautsprecher-Platte
Module haut parleur





	1003	A 5	6709	C16
	1702	J13	7701	C14
	1986	A 3	7702	D14
	2701	E14	7703	I 8
A	2702	E16	7704	J 6
	2703	E16	7705	J 4
	2704	N 4	7706	K15
	2705	M 8	7707	L15
	2706	A11	7708	B 9
	2707	E17	7709	F 5
	2708	F14	7710	D 3
	2709	L14	7711	F 6
B	2710	L14	7712	G 4
	2711	K14	9707	D15
	2712	J14		
	2713	B 7		
	2714	D 7		
	2715	D 6		
	2716	A12		
	2717	E 7		
C	2718	C16		
	2719	J16		
	2721	K16		
	2722	K16		
	2781	J16		
	3701	L 9		
	3702	K 8		
D	3703	C13		
	3704	C14		
	3705	C14		
	3706	C15		
	3707	D14		
	3708	D15		
	3710	C15		
	3711	D16		
E	3712	D16		
	3713	D17		
	3714	D18		
	3716	E 9		
	3717	E 8		
	3718	I 9		
	3719	J 7		
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	3721	H 8		
	3722	I 6		
	3723	J 5		
	3724	H 5		
	3725	I 6		
	3726	J 3		
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	3753	F15		
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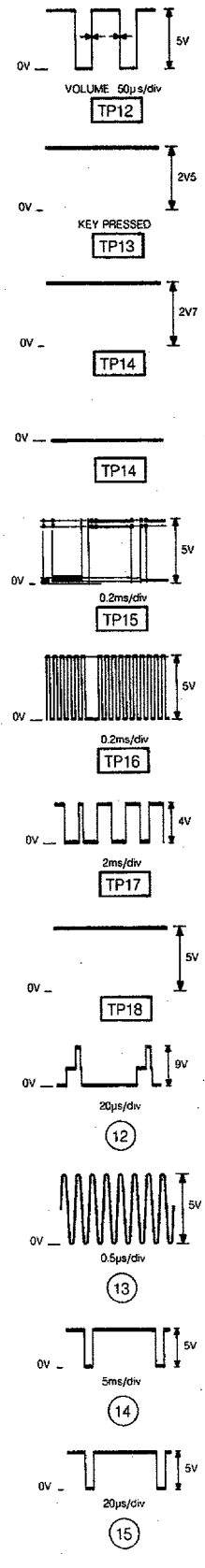
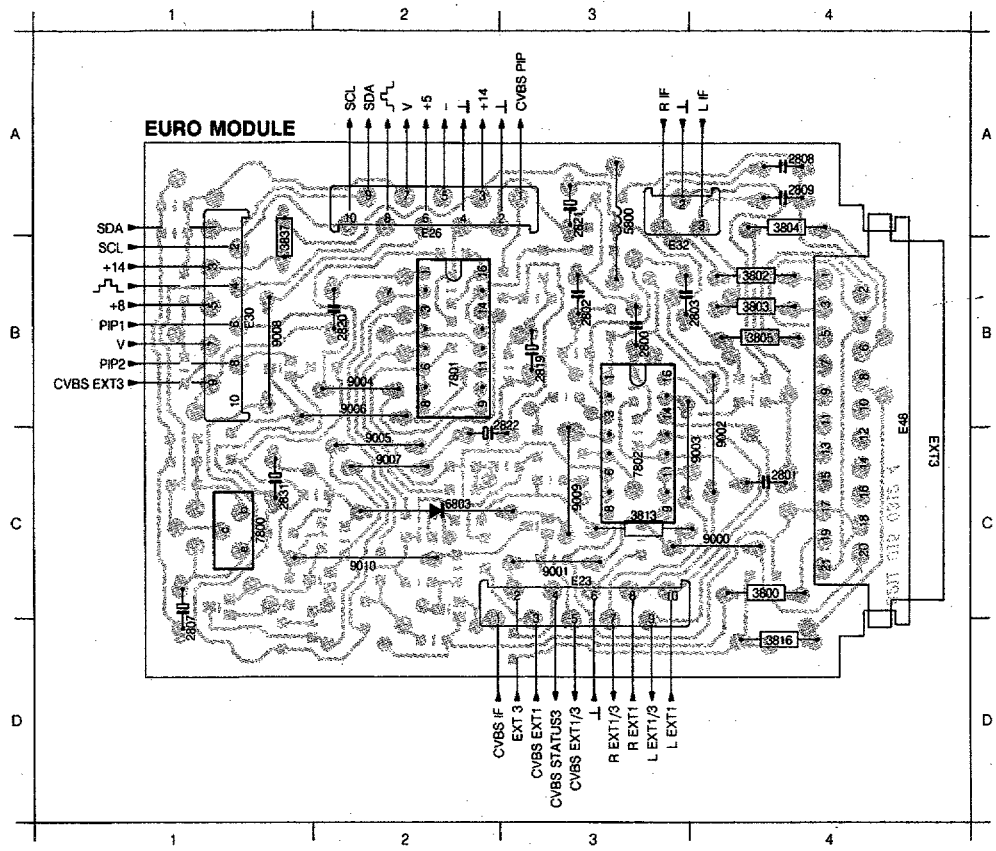
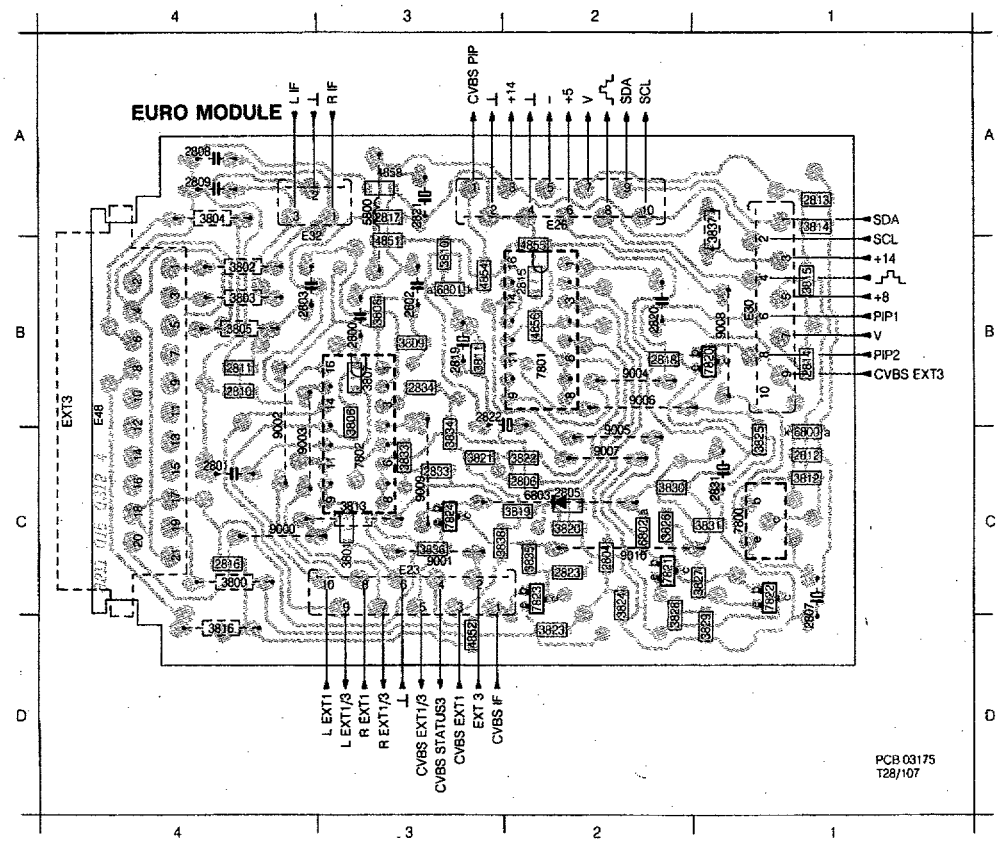
	4704	J 3		
	4706	B 8		
M	4707	N 7		
	4708	B 8		
	4709	B 9		
	4710	K 7		
	4712	H 5		
	4713	G 3		
	4714	F14		
	4715	F 4		
N	4716	H 6		
	4717	N 5		
	4718	J 3		
	4720	G 5		
	4721	E 3		
	4862	D 2		
	4865	D 2		
	4866	B 2		
O	5701	L13		
	5703	B12		
	6705	M 7		
	6707	M 5		
	6708	K17		



PRS.06912
T-26/105

Euro module
Euro-AV-Platte
Module Prise Péritélévision





E23 C3
E26 B2
E30 B1
E32 B3
E48 C4
2800 B3
2801 C4
2802 B3
2803 B4
2804 C2
2805 C2
2806 C2
2807 D1
2808 A4
2809 A4
2810 B4
2811 B4
2812 C1
2813 A1
2814 B1
2815 B2
2816 C4
2817 A3
2818 B2
2819 B3
2820 B2
2821 B3
2822 C2
2823 C2
2831 C1
2833 C3
2834 B3
3800 C4
3801 C3
3802 B4
3803 B4
3804 A4
3805 B4
3806 C3
3807 B3
3808 B3
3809 B3
3810 B3
3811 B3
3812 C1
3813 C3
3814 B1
3815 B1
3816 D4
3819 C2
3820 C2
3821 C2
3822 C2
3823 D2
3824 D2
3825 C1
3826 C2
3827 C1
3828 D2
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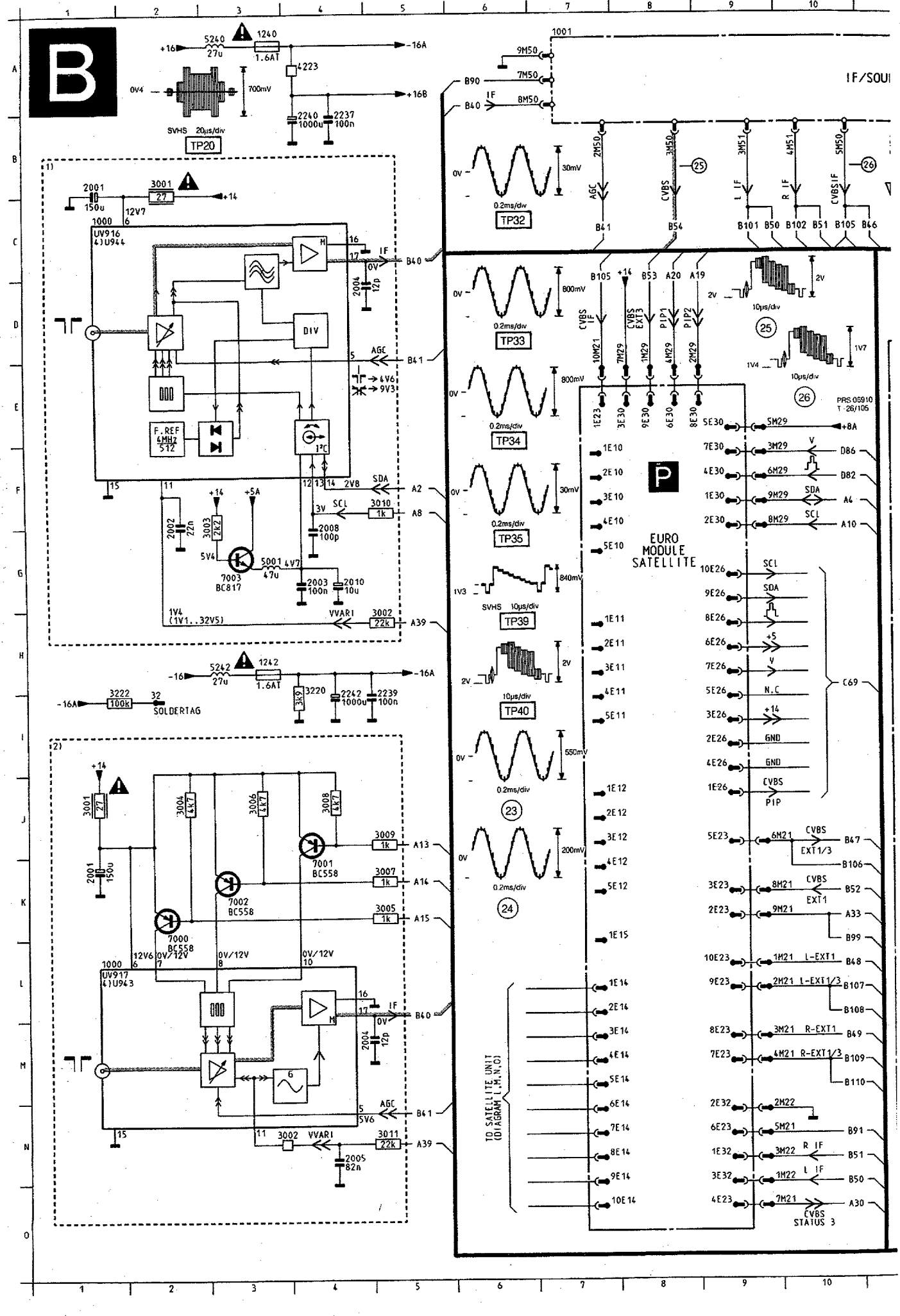
5800 A3
6800 C1
6801 B3
6802 C2
6803 C2
7800 C1
7801 B2
7802 C3
7820 B1
7821 C2
7822 D1
7823 D2
7824 C3
9000 C4
9001 C3
9002 C4
9003 C4
9004 B2
9005 C2
9006 B2
9007 C2
9008 B1
9009 C3
9010 C2

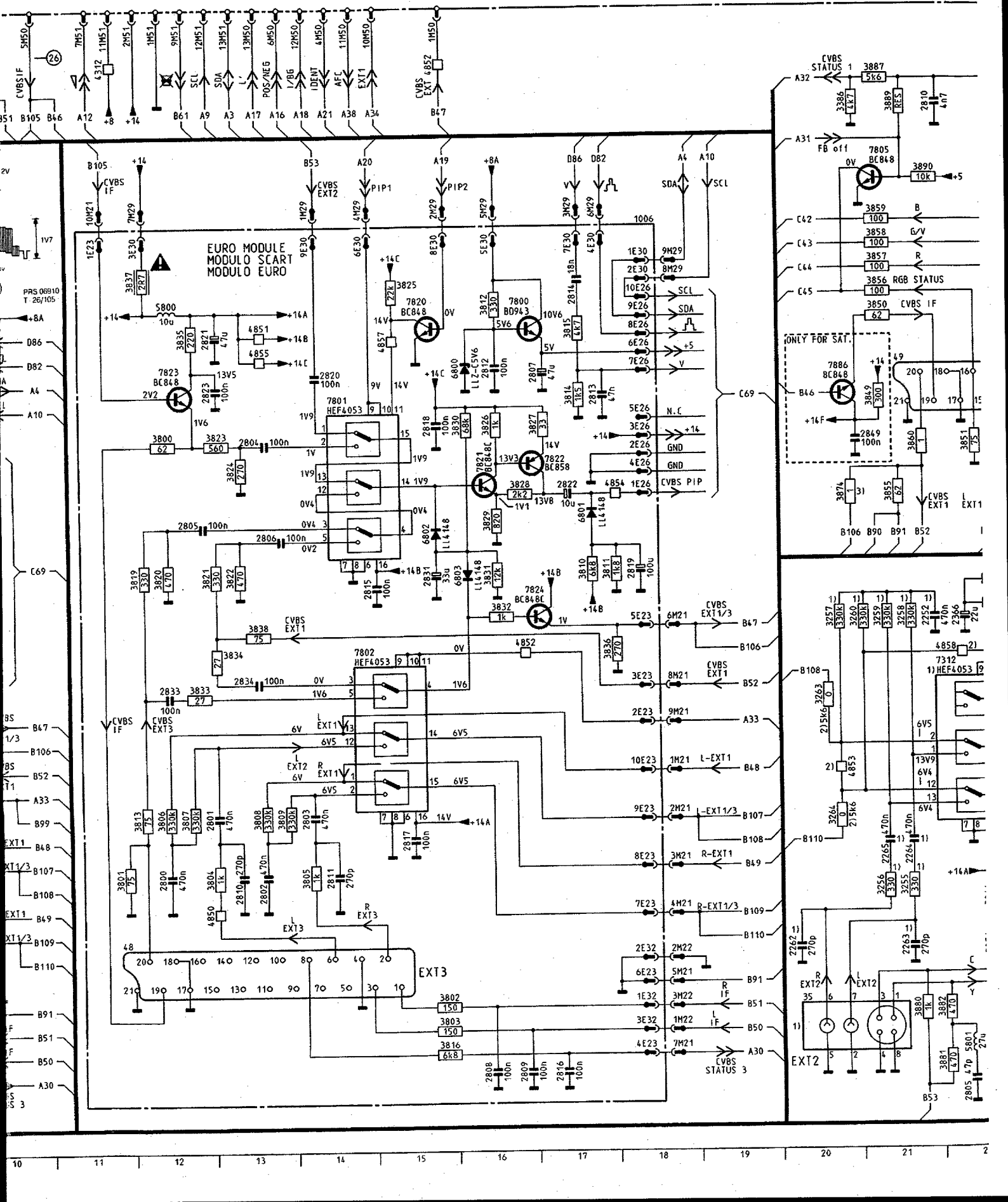
Tuner / Kanalwähler / Sélecteur



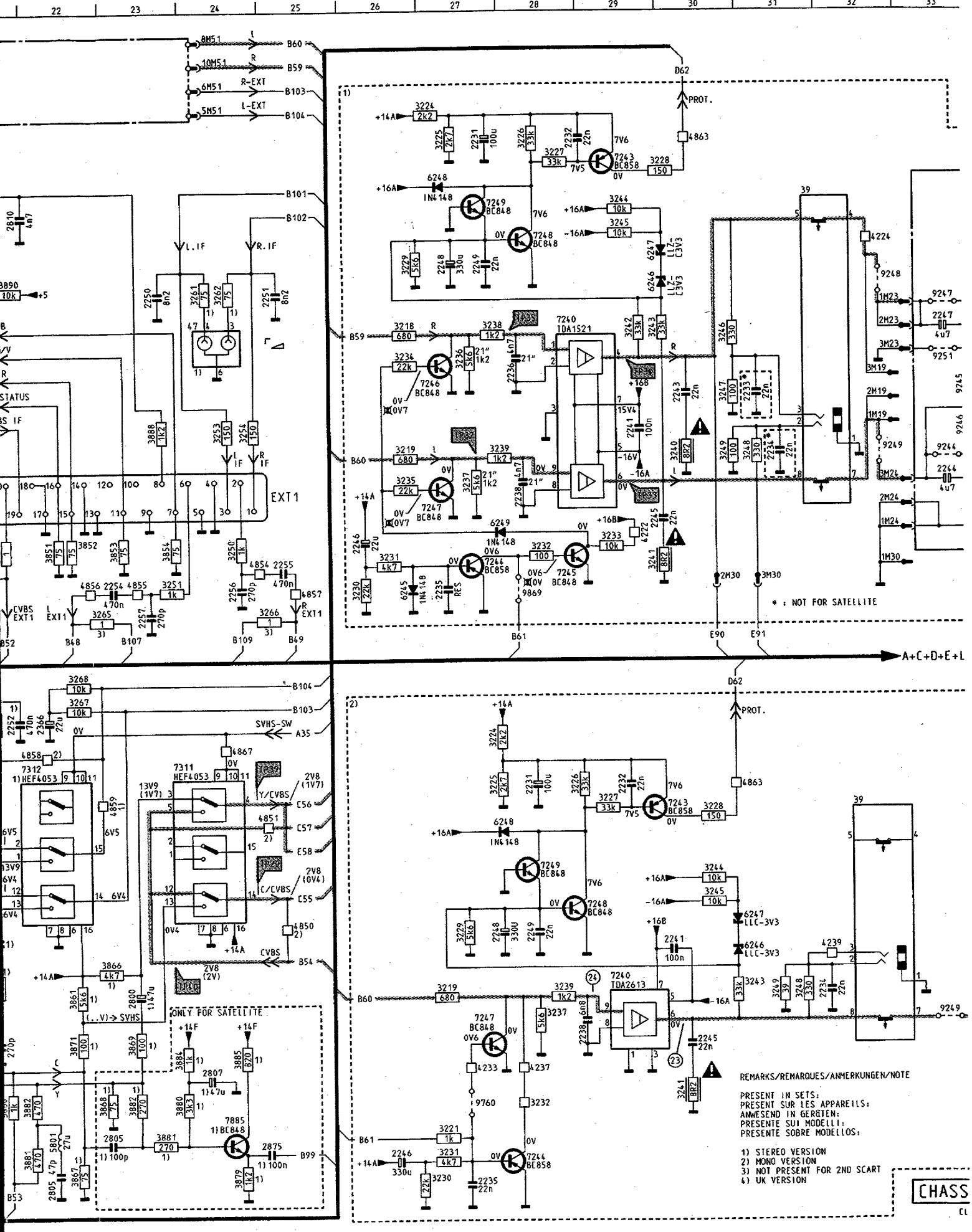
IF / ZF / FI

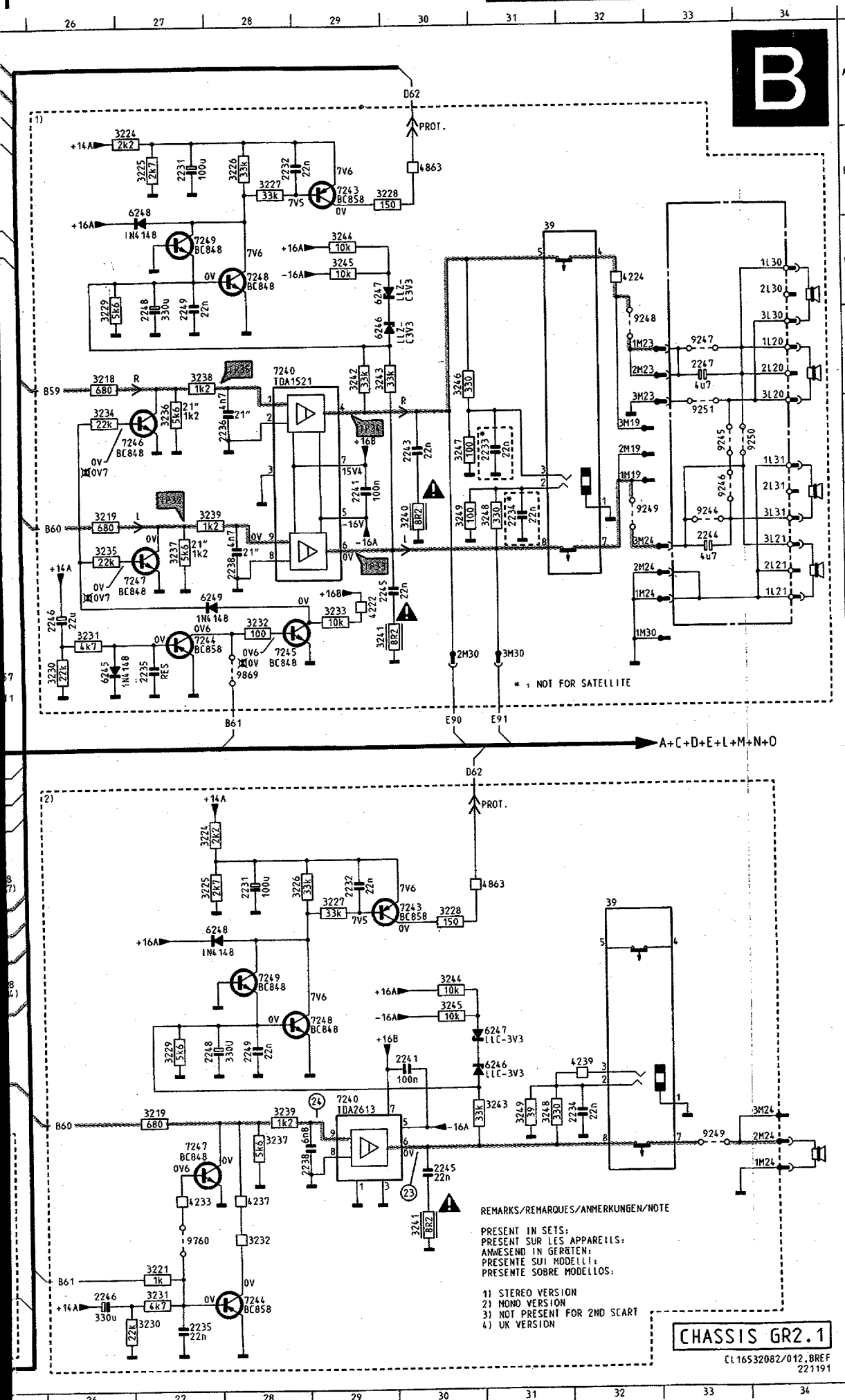
IF/SOUND MODULE ZF/TON MODUL MODULE FI/SON MODULO IF/AUDIO MODULO SONIDO FI

G: MONO
H: STEREO/ESTEREO
I: NICAM



Sound / Ton / Son





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1000	C 1	3228	J30	3882	N22
1001	A 7	3228	B30	3884	M23
1006	D18	3229	L27	3885	M24
1240	A 3	3229	C26	3887	B21
1242	H 3	3230	D27	3888	F23
2001	K 1	3230	H26	3889	C21
2001	B 1	3231	O27	3890	D21
2002	F 2	3231	G26	39	C31
2003	G 4	3232	N28	39	J32
2004	M 4	3232	G28	4222	G29
2004	D 4	3233	G29	4223	A 4
2005	N 4	3234	E26	4224	C32
2008	G 4	3235	F26	4233	N27
2010	G 4	3236	E27	4237	N28
2231	J28	3237	M28	4239	L32
2231	B27	3237	F27	4312	B11
2232	J29	3238	D27	47	D24
2232	B28	3239	M28	48	M11
2233	E31	3239	F27	4850	M12
2234	M32	3240	F30	4850	L25
2234	F31	3241	N30	4851	F13
2235	O27	3241	G29	4851	J25
2235	H27	3242	D29	4852	B15
2236	E28	3243	D29	4852	I16
2237	B 4	3243	L31	4853	K20
2238	M29	3244	K30	4854	H18
2238	F28	3244	C29	4854	G24
2239	I 5	3245	K30	4855	F13
2240	B 4	3245	C29	4855	G23
2241	L30	3246	D30	4856	G22
2241	F29	3247	E30	4857	F15
2242	I 4	3248	M31	4857	H25
2243	E30	3248	F31	4858	J22
2244	F33	3249	M31	4859	J23
2245	N30	3249	F30	4863	J31
2245	G29	3250	G24	4863	B30
2246	O26	3251	G23	4867	J24
2246	G26	3253	F24	49	F21
2247	D33	3254	F24	5001	G 3
2248	L27	3255	L21	5240	A 3
2248	C27	3256	L21	5242	H 3
2249	L28	3257	I20	5800	E12
2249	C27	3258	I21	5801	N22
2250	D23	3259	I21	6245	H26
2251	D25	3260	I20	6246	L31
2252	I21	3261	D24	6246	D29
2254	G23	3262	D24	6247	L31
2255	G25	3263	J20	6247	C29
2256	H24	3264	L20	6248	B27
2257	H23	3265	H22	6248	J27
2262	M20	3266	H25	6249	G27
2263	M21	3267	I22	6800	F16
2264	L21	3268	I22	6801	H17
2265	L21	3386	C20	6802	H15
2366	I22	3800	G12	6803	I16
2800	L12	3801	L11	7000	K 2
2800	M23	3802	N15	7001	K 4
2801	L12	3803	N15	7002	K 3
2802	L13	3804	L12	7003	G 3
2803	L14	3805	L14	7240	L29
2804	G13	3806	L12	7240	D28
2805	H12	3807	L12	7243	J30
2805	N23	3808	L13	7243	B29
2805	O22	3809	L13	7244	O28
2806	H13	3810	I17	7244	G27
2807	F17	3811	I17	7245	G28
2807	N24	3812	E16	7246	E27
2808	O16	3813	L12	7247	M27
2809	O16	3814	F17	7247	F27
2810	L13	3815	F17	7248	L29
2810	C21	3816	N15	7248	C28
2811	L14	3819	I12	7249	K28
2812	F16	3820	I12	7249	C27
2813	F17	3821	I12	7311	J23
2814	E17	3822	I13	7312	J21
2815	I14	3823	G13	7800	E16
2816	O17	3824	G13	7801	F14
2817	L15	3825	E15	7802	J14
2818	G15	3826	G16	7805	C21
2819	I18	3827	G17	7820	E15
2820	F14	3828	H16	7821	G16
2821	F13	3829	H16	7822	G17
2822	H17	3830	G16	7823	F12
2823	F13	3831	I16	7824	I17
2831	I15	3832	I16	7885	N24
2833	J12	3833	J12	7886	F20
2834	J13	3834	I13	9244	F33
2849	G21	3835	F12	9245	E33
2875	O25	3836	J17	9246	F33
3001	J 1	3837	E12	9247	D33
3001	B 2	3838	I13	9248	D32
3002	H 5	3849	F21	9249	F32
3002	N 3	3850	E21	9249	M33
3003	F 3	3851	G22	9250	E34
3004	J 2	3852	G22	9251	E33
3005	K 5	3853	G23	9760	N27
3006	J 3	3854	G23	9869	H28
3007	K 5	3855	H21		
3008	J 4	3856	E21		
3009	J 5	3857	E21		
3010	F 5	3858	D21		
3011	N 5	3859	D21		
3218	D26	3860	G21		
3219	M27	3861	M22		
3219	F26	3866	L23		
3220	H 4	3867	O22		
3221	N27	3868	N22		
3222	I 1	3869	M23		
3224	I27	3871	M22		
3224	B27	3874	H20		
3225	J27	3879	O24		
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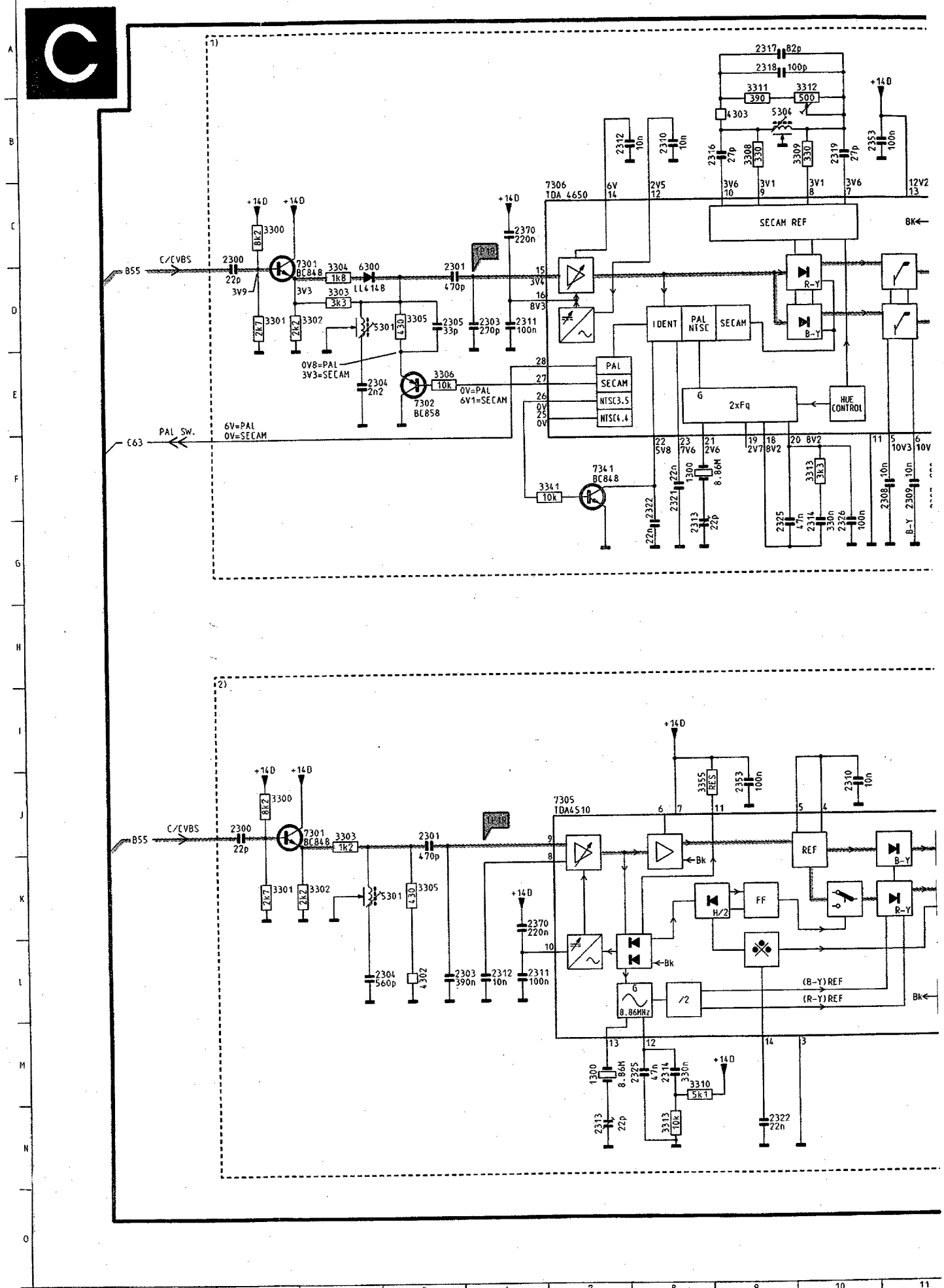
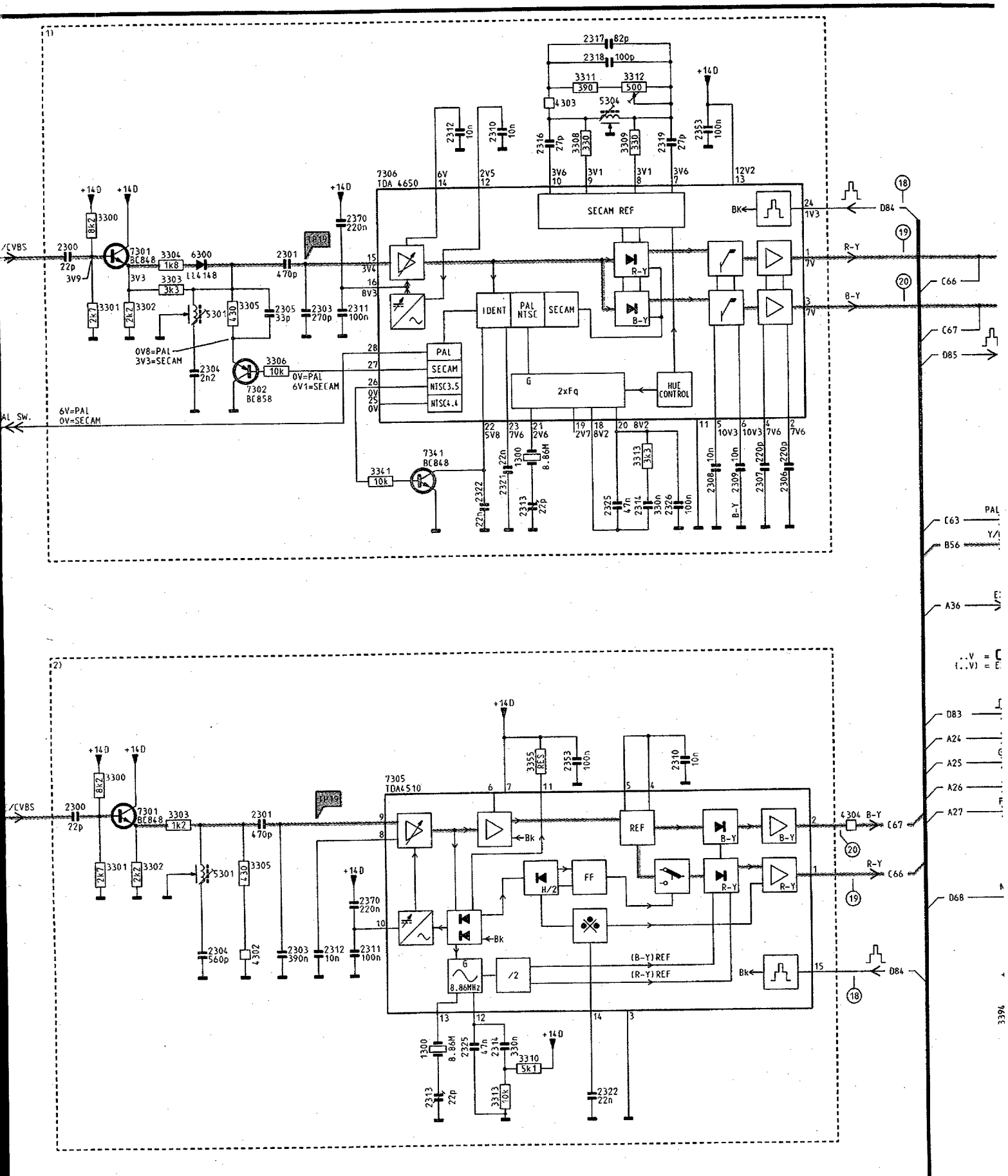
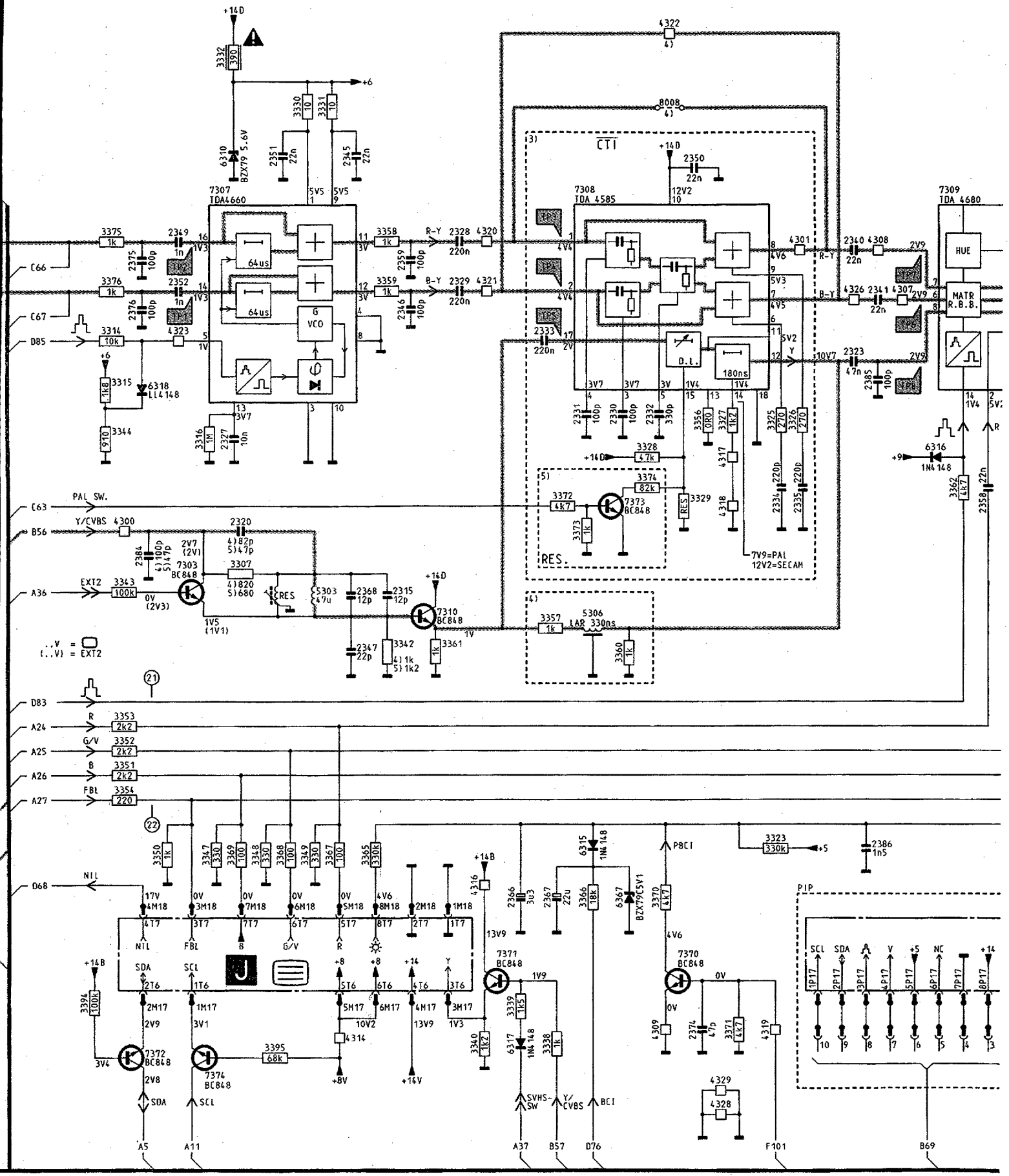

C
1)
2)
C/CVBS
B55
PAL SW.
C63
6V=PAL
0V=SECAM
0V8=PAL
3V3=SECAM
0V=PAL
6V1=SECAM
7306
TDA 4650
7305
TDA4510
SECAM REF
IDENT
PAL NTSC
SECAM
PAL
SECAM
NTSC3.5
NTSC4.4
2xFq
HUE CONTROL
R-Y
B-Y
REF
FF
H/2
/2
8.86MHz
(B-Y)REF
(R-Y)REF
+14D
Bk
7301 BC848
7302 BC858
7341 BC848

Video


1)
7306 TDA 4650
SECAM REF
IDENT
PAL NTSC
SECAM
PAL
SECAM
NTSC3.5
NTSC4.4
2xFq
HUE CONTROL
R-Y
B-Y
/CVBS
6V=PAL 0V=SECAM
0V8=PAL 3V3=SECAM
0V=PAL 6V1=SECAM
7302 BC858
7341 BC848
2)
7305 TDA4510
REF
FF
H/2
/2
8.86MHz
(B-Y)REF
(R-Y)REF
Bk
D84
D83
D85
D68
C66
C67
C63
B56
A36
A24
A25
A26
A27


+14D
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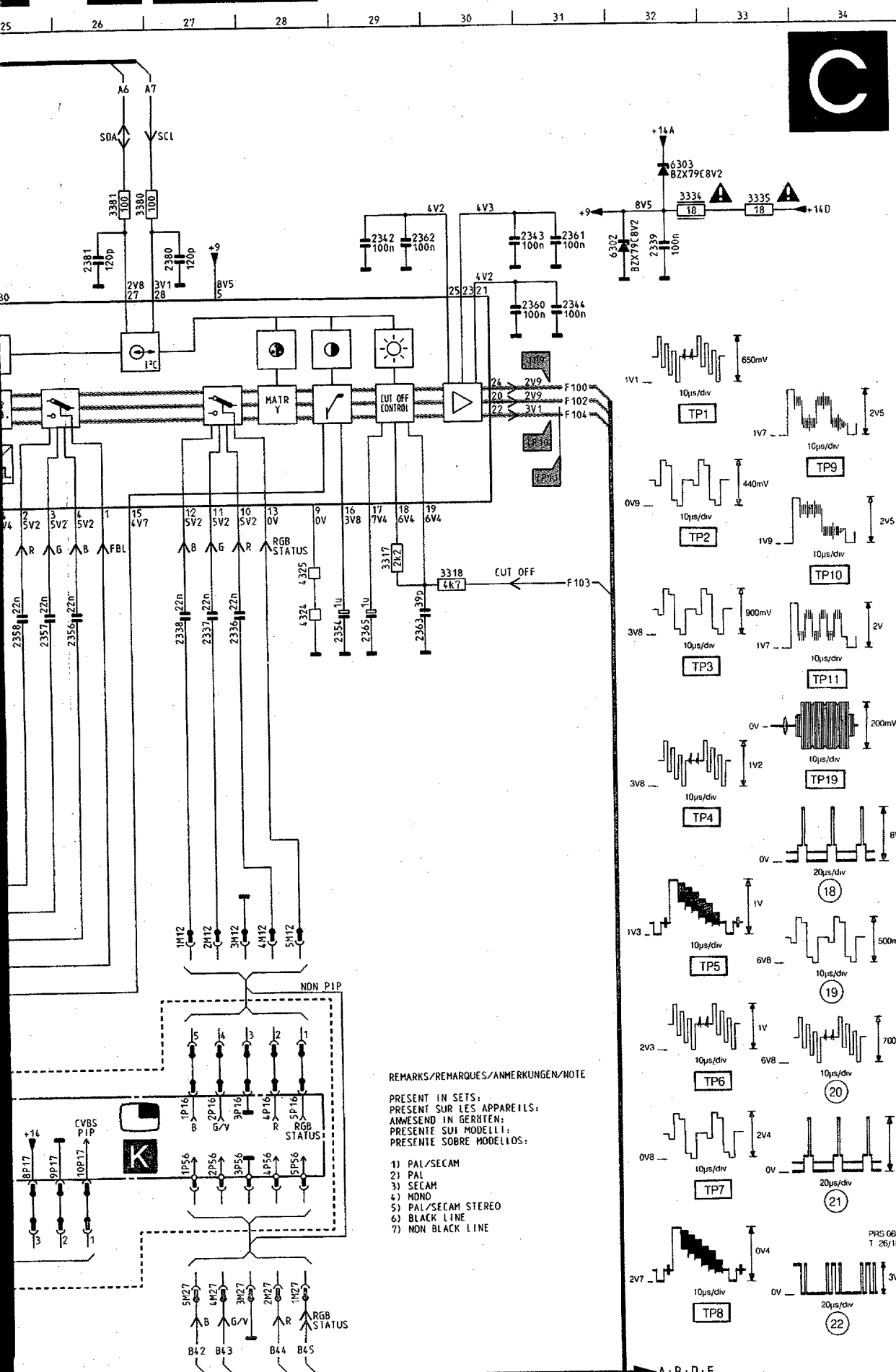
7308 IDA 4585
7309 IDA 4680
8008
CTI
64us
VCO
D.L.
180ns
HUE
MATR R.B.B.
RES.
7V9=PAL 12V2=SECAM
PAL SW.
Y/CVBS 4300
EXT2
R-Y
B-Y
SDA
SCL
SVHS-SW
Y/CVBS
BCI
PIP
NTL
FBL
R
G/V
B
A5
A11
A37
B57
D76
F101
B69



REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

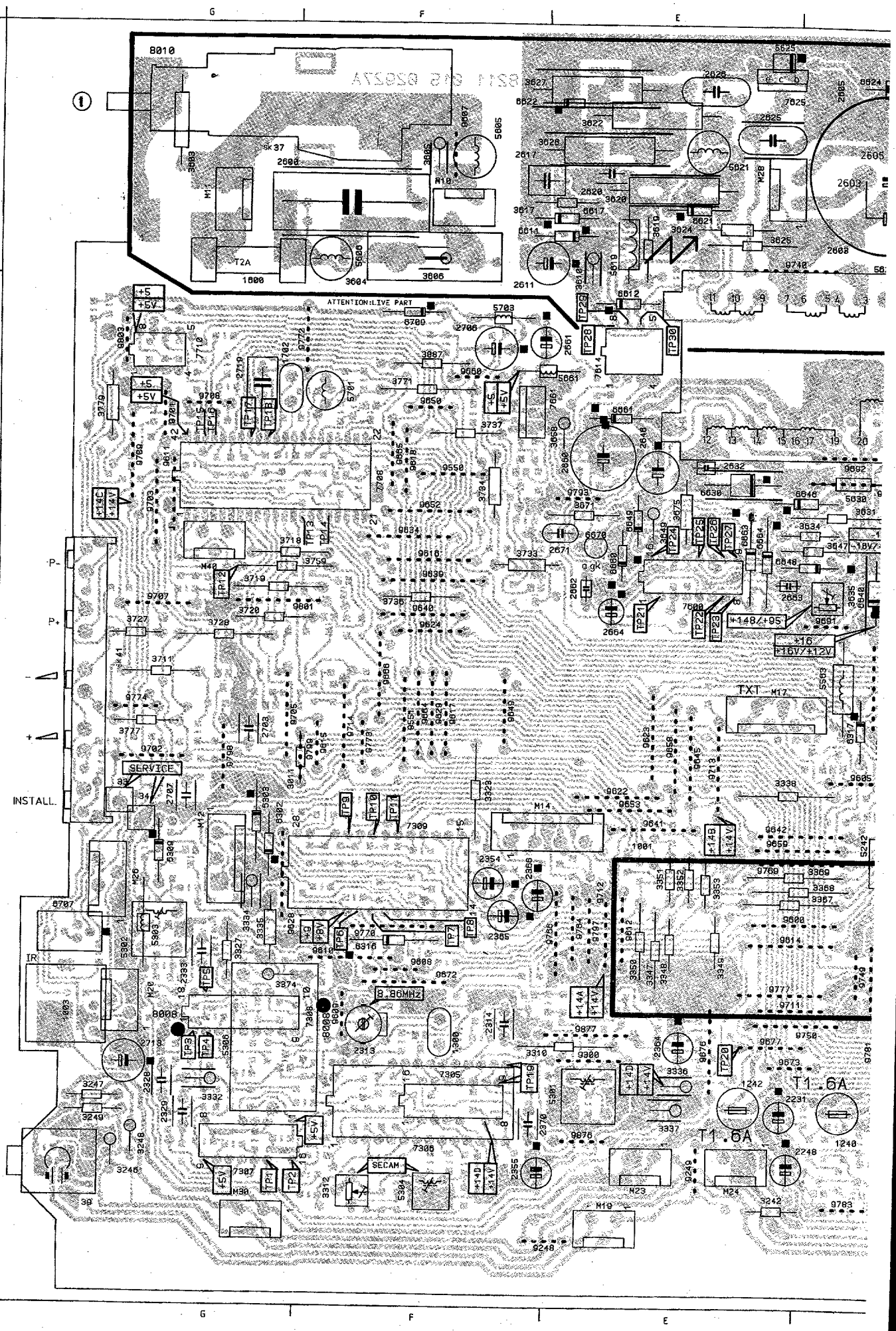
1) PAL/SECAM
2) PAL
3) SECAM
4) MONO
5) PAL/SECAM STEREO
6) BLACK LINE
7) NON BLACK LINE

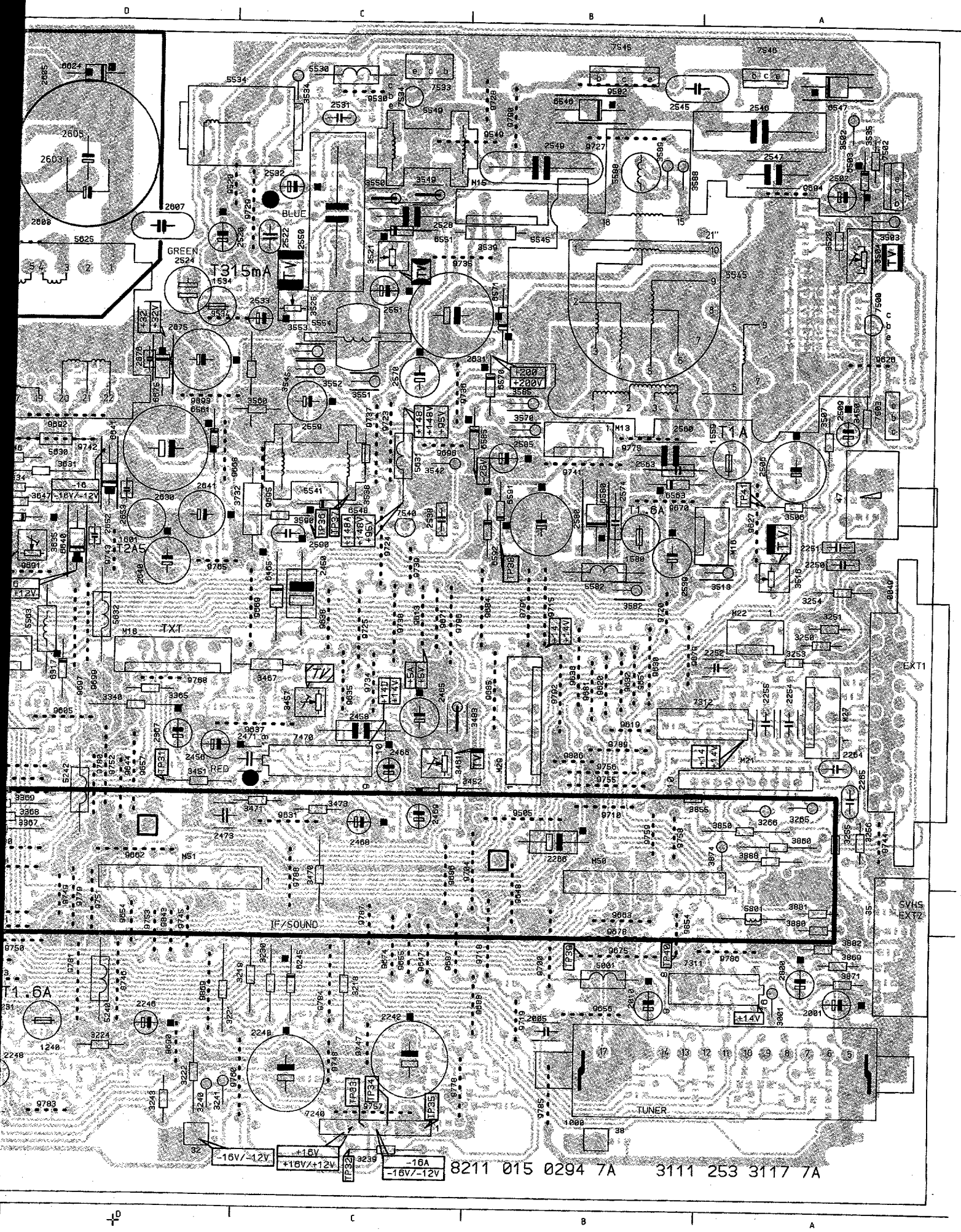
CHASSIS GR2.1

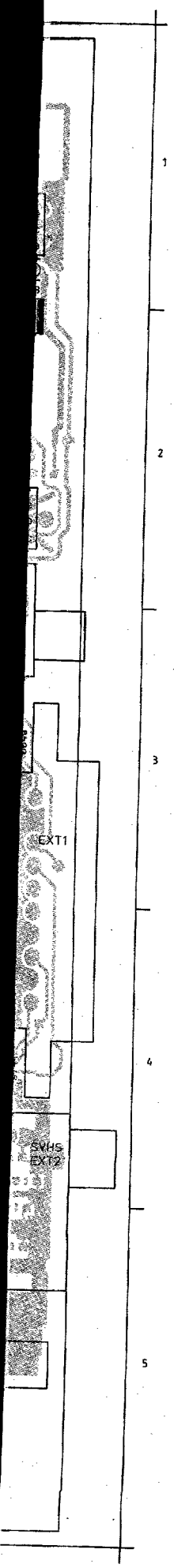
CL16532082/013.CREF
221191

1300	F 8	3327	F22
1300	M 7	3328	F21
2300	C 3	3329	G21
2300	J 3	3330	B17
2301	D 6	3331	B17
2301	J 5	3332	A16
2303	D 6	3334	B32
2303	L 5	3335	B33
2304	E 4	3338	M20
2304	L 4	3339	M19
2305	D 5	3340	M19
2306	F12	3341	F 7
2307	F11	3342	H18
2308	F11	3343	H15
2309	F11	3344	F14
2310	B 8	3347	K16
2310	J10	3348	K16
2311	D 6	3349	K17
2311	L 6	3350	K15
2312	B 8	3351	J15
2312	L 6	3352	J15
2313	G 8	3353	I15
2313	N 7	3354	J15
2314	G10	3355	J 8
2314	M 8	3356	F22
2315	H18	3357	H20
2316	B 9	3358	D18
2317	A 9	3359	D18
2318	A 9	3360	I21
2319	B10	3361	H18
2320	G16	3362	G25
2321	F 8	3365	K18
2322	N 9	3366	L20
2322	G 8	3367	K17
2323	E23	3368	K17
2325	G 9	3369	K16
2325	M 8	3370	L21
2326	G10	3371	M22
2327	F16	3372	G20
2328	D19	3373	G20
2329	D19	3374	G21
2330	F21	3375	D14
2331	F20	3376	D14
2332	F21	3380	B26
2333	E20	3381	B26
2334	G23	3394	M14
2335	G23	3395	M16
2336	G27	4300	G15
2337	G27	4301	D23
2338	G27	4303	B 9
2339	C32	4304	J12
2340	D23	4307	D24
2341	D24	4308	D24
2342	C29	4309	M21
2343	C31	4314	M17
2344	C31	4316	K19
2345	C17	4317	F22
2346	D18	4318	G22
2347	I17	4319	M22
2349	D15	4320	D19
2350	C22	4321	D19
2351	C16	4322	A21
2352	D15	4323	E15
2353	B11	4324	G28
2353	J 9	4325	F28
2354	G29	4326	D23
2356	G26	4328	N22
2357	G25	4329	N22
2358	G25	5301	D 5
2359	D18	5301	K 5
2360	C31	5303	H17
2361	C31	5304	B 9
2362	C29	5306	H20
2363	G29	6300	D 4
2365	G29	6302	C32
2366	I19	6303	B32
2367	L20	6310	C16
2368	H17	6315	K20
2370	C 6	6316	F24
2370	K 6	6317	M19
2374	M22	6318	E15
2375	D15	6367	L21
2376	D15	7301	D 4
2380	C27	7301	J 4
2381	C26	7302	E 5
2384	G15	7303	H15
2385	E24	7305	J 7
2386	K24	7306	C 7
3300	C 3	7307	C16
3300	J 3	7308	C20
3301	D 3	7309	C24
3301	K 3	7310	H18
3302	D 4	7341	F 7
3302	K 4	7370	L21
3303	D 4	7371	L19
3303	J 4	7372	N15
3304	D 4	7373	G21
3305	D 5	7374	N16
3305	K 5	8008	B21
3306	E 5		
3307	H16		
3308	B 9		
3309	B10		
3310	M 8		
3311	B 9		
3312	B10		
3313	F10		
3313	N 8		
3314	E14		
3315	E14		
3316	F16		
3317	F29		
3318	F30		
3323	K23		
3325	F23		
3326	F23		

Monocarrier / Hauptplatine / Châssis




T315mA
T2A5
T1.6A
T1A
TXT
IF/SOUND
TUNER
EXT1
SVHS EXT2
BLUE
GREEN
RED
21"
-16V/-12V
+16V/+12V
-16A
8211 015 0294 7A
3111 253 3117 7A



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M11 G1 2664 E3 3736 F3 9609 F5 9756 B4
M12 G4 2671 E3 3737 F2 9610 F4 9757 C5
M13 B2 2675 D2 3759 F3 9611 G2 9758 A4
M14 E4 2676 D2 3771 F2 9612 E4 9759 B4
M15 B1 2703 G3 3777 G3 9613 C3 9760 C5
M16 A3 2706 F2 3779 G2 9614 D4 9764 E4
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M18 C3 2713 G5 3855 A4 9616 F3 9766 E4
M19 E5 2719 G2 3860 A4 9617 F3 9768 D3
M20 G5 2800 A5 3869 A5 9618 F2 9769 D4
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M22 A3 3218 C5 3874 A4 9620 B3 9772 F2
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M24 E5 3221 C5 3881 A4 9623 E3 9774 G3
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M28 D1 3230 C5 3888 A4 9627 A3 9778 B5
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M30 F5 3240 C5 5240 D5 9629 F3 9780 D4
M40 G3 3241 C5 5242 D4 9630 B3 9781 D5
M50 B4 3242 D5 5301 E5 9631 C4 9783 D5
M51 D4 3243 D5 5302 G4 9632 B3 9784 C5
0032 C5 3246 G5 5303 G4 9634 F3 9785 B5
0033 G4 3247 G5 5304 F5 9635 C3 9786 A5
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0035 A5 3249 G5 5530 C1 9637 C4 9788 C4
0037 F1 3250 A3 5534 D1 9638 C3 9789 B4
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1300 F5 3323 F4 5619 E1 9649 F3 9803 G2
1534 C2 3327 G4 5621 E1 9650 F2 9806 B4
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1702 F2 3337 E5 5661 E2 9655 C5 9877 E5
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2246 D5 3349 E4 6302 F4 9660 F2
2248 D5 3350 E4 6303 G4 9662 D4
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2251 A3 3352 E4 6316 F4 9664 F3
2252 A3 3353 E4 6317 D3 9665 F2
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2255 A4 3367 D4 6503 A1 9668 C2
2264 A4 3368 D4 6546 B1 9669 C3
2265 A4 3369 D4 6547 A1 9670 A3
2266 B4 3374 F4 6548 C3 9671 B3
2313 F5 3450 A2 6551 C1 9672 F4
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2328 G5 3452 B4 6563 A3 9674 C5
2329 G5 3457 C4 6570 B2 9675 B5
2333 G4 3461 C4 6571 B2 9676 E5
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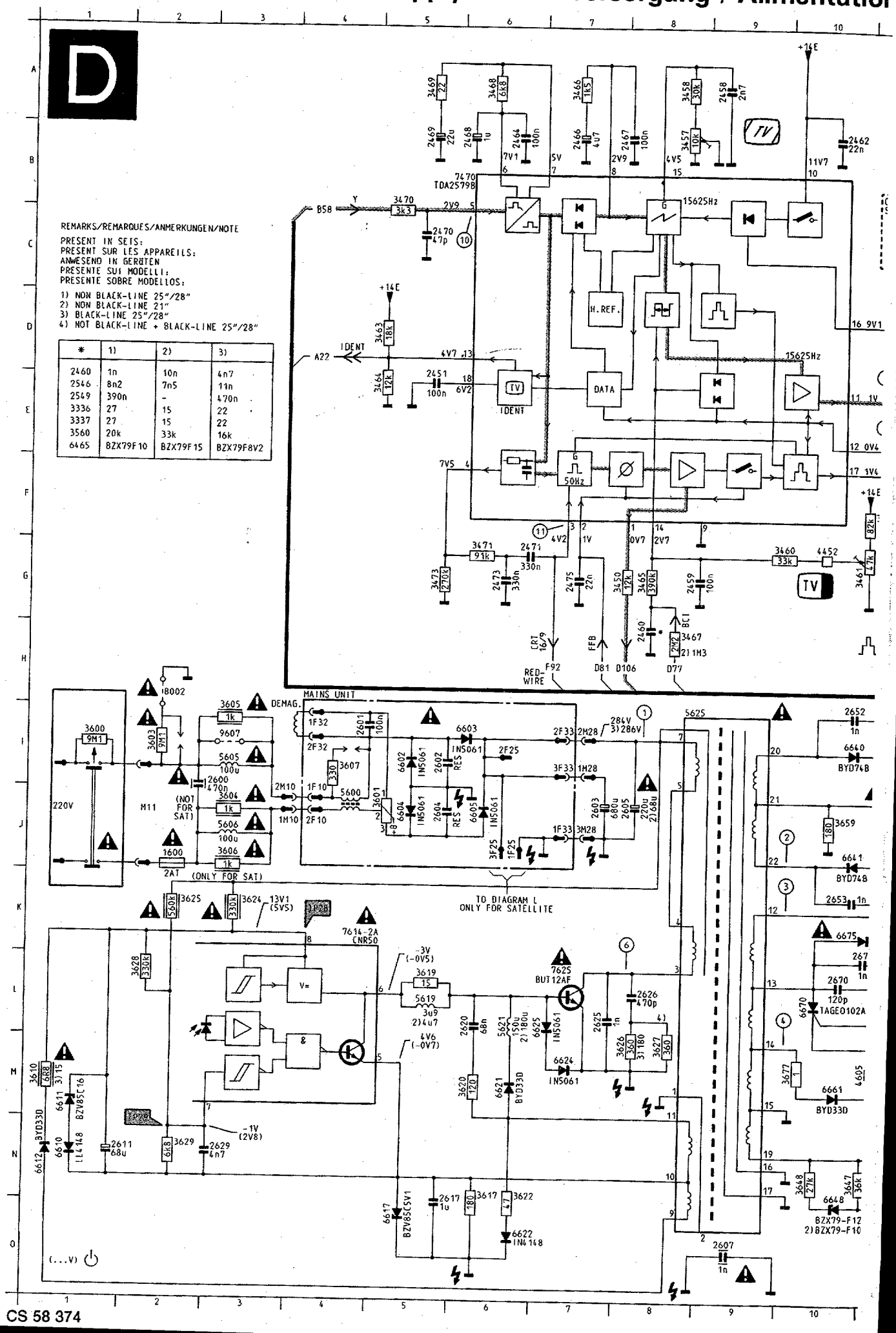
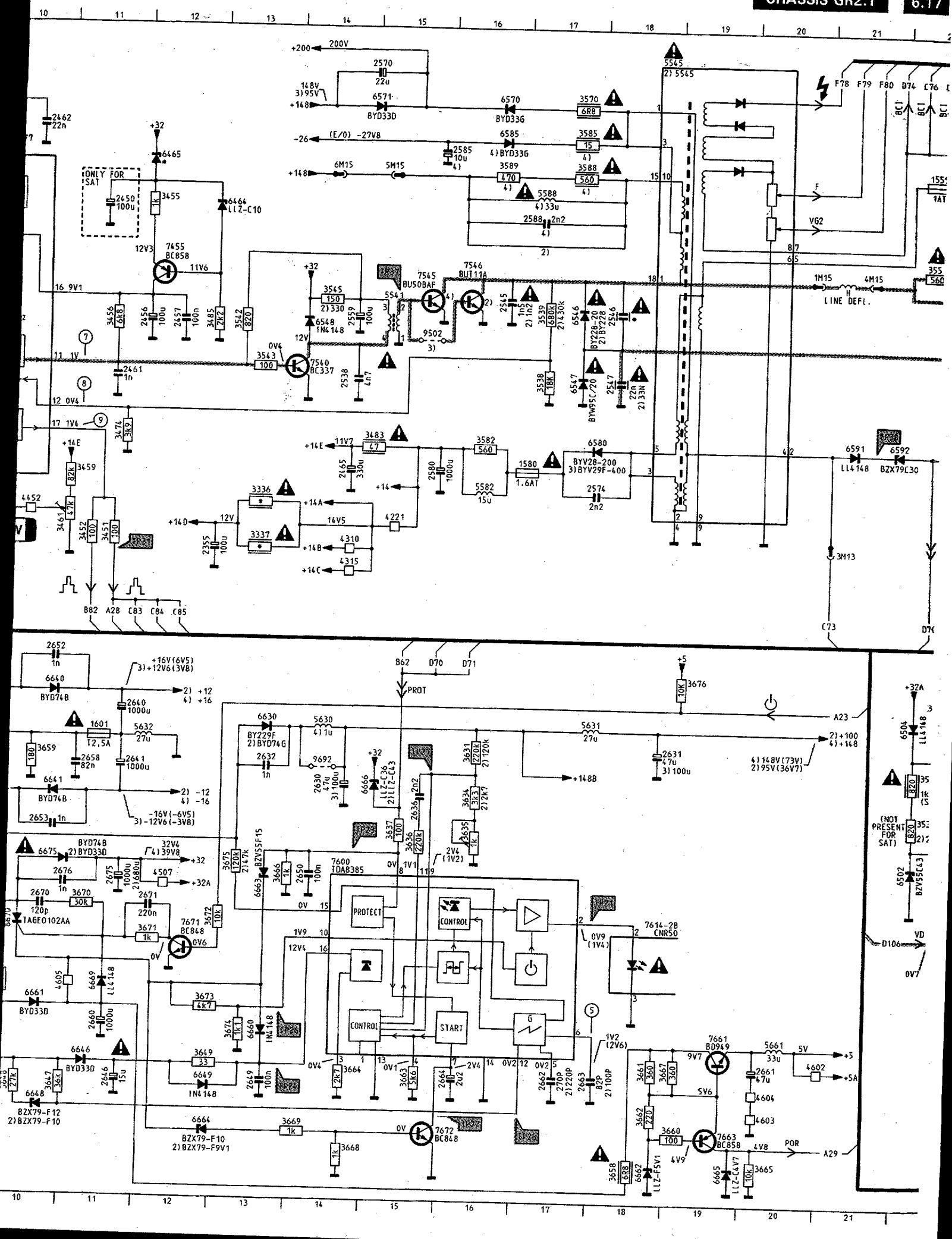
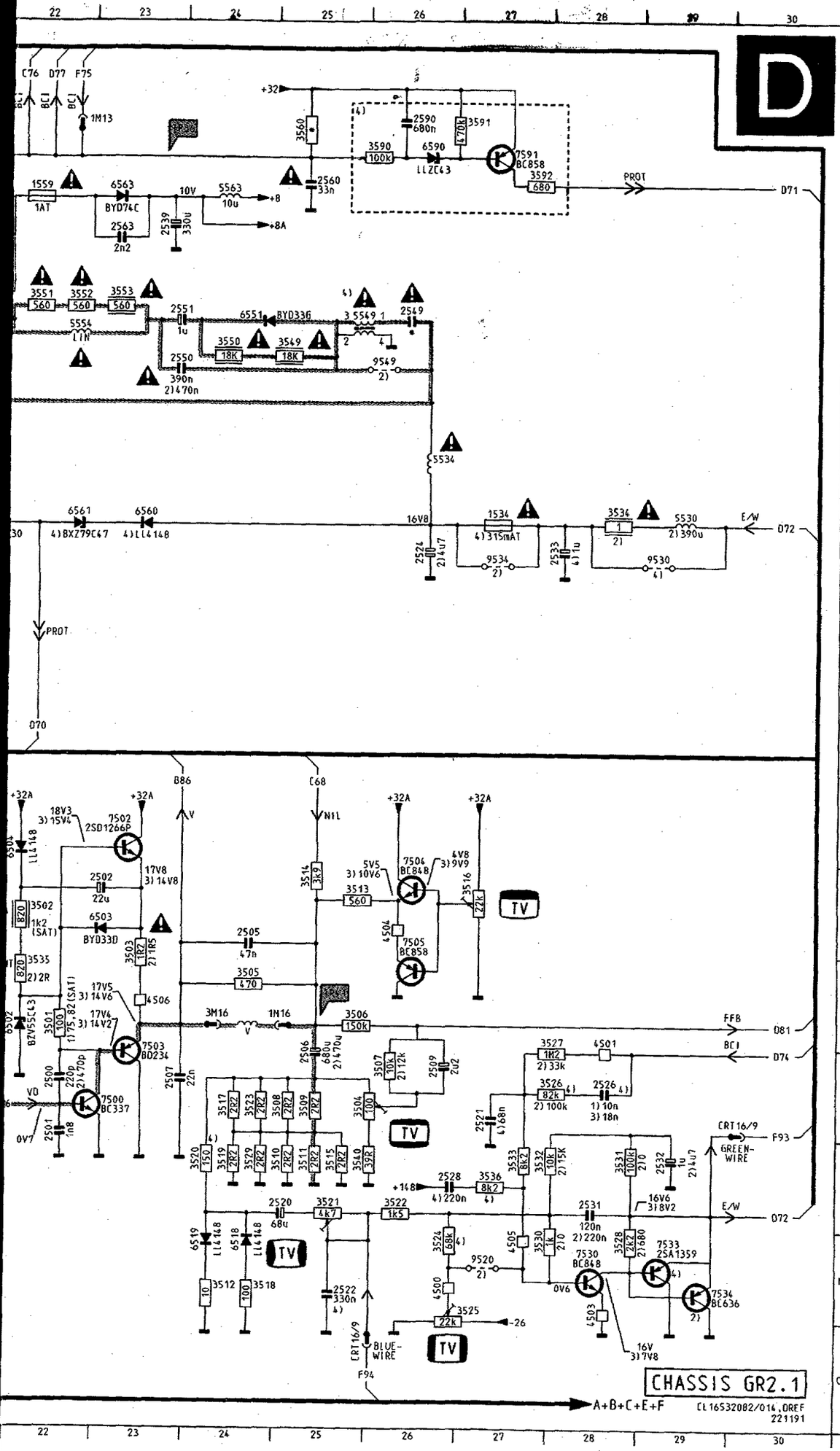
Power supply / Stromversorgung / Alimentation




+200
200V
2570
22u
148V
3) 95V
+148
6571
BYD33D
6570
BYD33G
3570
6R8
5545
2) 5545
-26
(E/0) -27V8
6585
4) BYD33G
3585
15
4)
2585
10u
4)
6M15
5M15
+148
3589
470
4)
3588
560
4)
5588
4) 33u
2588
2n2
4)
2)
F78
F79
F80
D74
C76
F
VG2
1M15
4M15
H
LINE DEFL.
355
560
2462
22n
+32
6465
ONLY FOR SAT
2450
100u
3455
1k
6466
LLZ-C10
12V3
7455
BC858
11V6
16 9V1
3456
6k8
2456
100u
2457
100n
3485
2k2
3542
820
+32
3545
150
2) 330
6548
1N4148
2559
100u
7545
BU508AF
7546
BU111A
5541
9502
3)
2545
1n5
2) 1n2
3539
680k
2) 430k
6546
BY228-20
2) BY228
2546
3538
18K
6547
BYW95C-20
2547
22n
2) 33N
12V
0V4
3543
100
7540
BC337
2538
4n7
2461
1n
11 1V
12 0V4
17 1V4
3474
3k9
+14E
82k
3459
4452
3461
47k
3452
100
3451
100
B82
A28
C83
C84
C85
+14E
11V7
3483
47
2465
330u
3582
560
5582
15u
2580
1000u
1580
1.6AT
6580
BYV28-200
3) BYV29F-400
2574
2n2
+14
+14D
12V
2355
100u
3336
3337
+14A
14V5
4221
+14B
4310
+14C
4315
6591
LL4148
6592
BZX79C30
3M13
C73
D7(
2652
1n
6640
BYD74B
+16V(6V5)
3) +12V6(3V8)
2) +12
4) +16
2640
1000u
1601
T2,5A
5632
27u
3659
180
2658
82n
2641
1000u
6641
BYD74B
2) -12
4) -16
2653
1n
-16V(-6V5)
3) -12V6(-3V8)
B62
D70
D71
PROT
+5
10K
3676
A23
6630
BY229F
2) BYD74G
2632
1n
5630
4) 1u
9692
2630
47u
3) 100u
6666
LLZ-C36
2) LLZ-C43
3631
220k
2) 120k
3634
3k3
2) 2k7
3635
1k
2636
220k
2n2
3637
100
5631
27u
+148B
2631
47u
3) 100u
4) 148V(73V)
2) 95V(36V7)
2) +100
4) +148
6504
LL4148
820
(NOT PRESENT FOR SAT)
6502
BZV55C4V3
D106
VD
0V7
BYD74B
2) BYD33D
6675
32V4
4) 39V8
+32
2676
1n
2675
1000u
2) 680u
4507
+32A
2670
120p
TA6E0102AA
3670
30k
2671
220n
3671
1k
7671
BC848
0V6
3672
10k
0V
3675
120k
2) 47k
BZV55F15
6663
3666
1k
2650
100n
7600
TDA8385
0V
1V1
2V4
(1V2)
PROTECT
CONTROL
START
G
12V4
1V9
0V9
(1V4)
7614-2B
CNR50
4605
6669
LL4148
6661
BYD33D
2660
1000u
3673
4k7
3674
1k1
6660
IN4148
6646
BYD33D
3649
33
6649
IN4148
2649
100n
2646
15u
3647
36k
6648
BZX79-F12
2) BZX79-F10
6664
BZX79-F10
2) BZX79-F9V1
3669
1k
1k
3668
7672
BC848
0V4
0V1
0V2
1V2
(2V6)
3664
2k7
3663
5k6
2664
2u2
2662
270P
2) 220P
2663
82P
2) 100P
7661
BD949
9V7
5661
33u
5V
+5
4602
+5A
2661
47u
5V6
4604
4603
3662
270
3660
100
7663
BC858
4V9
4V8
POR
A29
3658
6R8
6662
LLZ-F5V1
6665
LLZ-C4V7
10k
3665
3661
360
3667
360

Synchronization / Synchronisation



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	2459	G 8	3511	M25	5588	B17
B	2460	H 8	3512	N24	5600	J 4
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	2462	B10	3514	J25	5606	J 3
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	2468	B 6	3519	M24	5631	I17
C	2469	B 5	3520	M24	5632	J12
	2470	C 5	3521	M25	5661	N20
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	2475	G 7	3524	N26	6502	K22
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	2505	J24	3528	N28	6519	N24
	2506	L25	3529	M24	6546	D17
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	2538	E14	3543	E13	6591	F21
F	2539	C23	3545	D14	6592	F21
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	2625	L 7	3622	N 6	6669	M11
	2626	L 8	3624	K 3	6670	L10
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	2646	N11	3635	K16	7505	J26
	2649	N13	3636	K15	7530	N28
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	3468	A 6	4503	N28		
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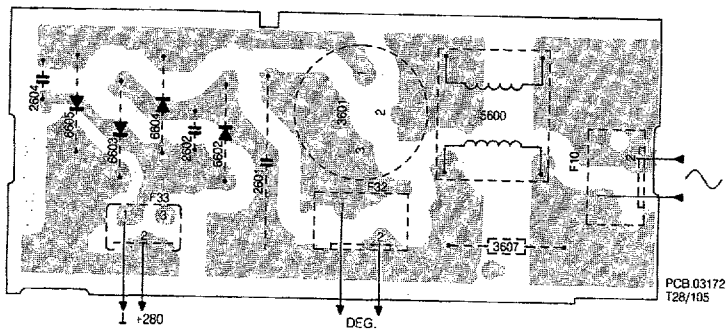
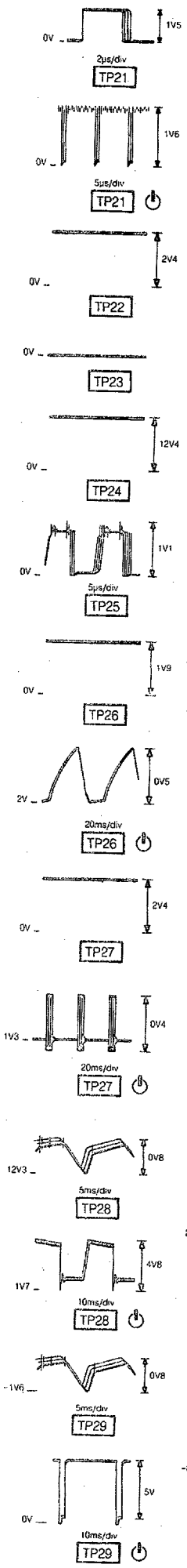
Mains module
Netzteil
Module secteur





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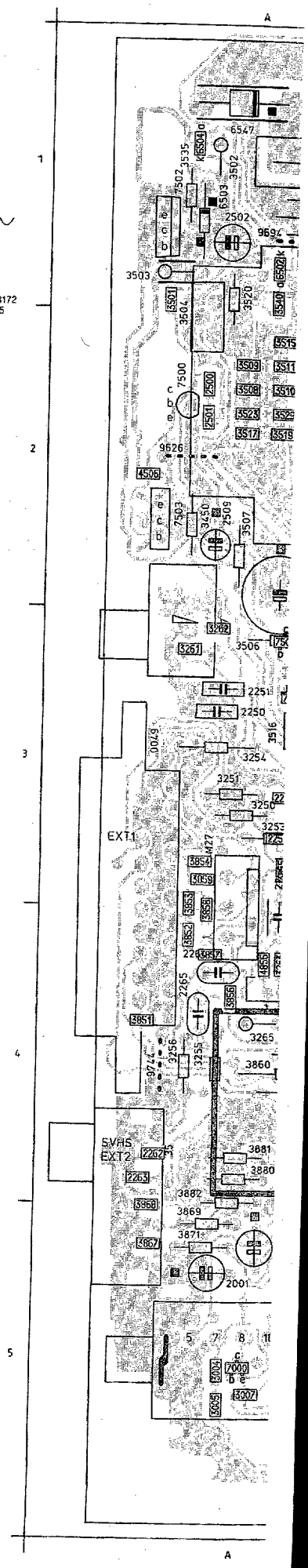
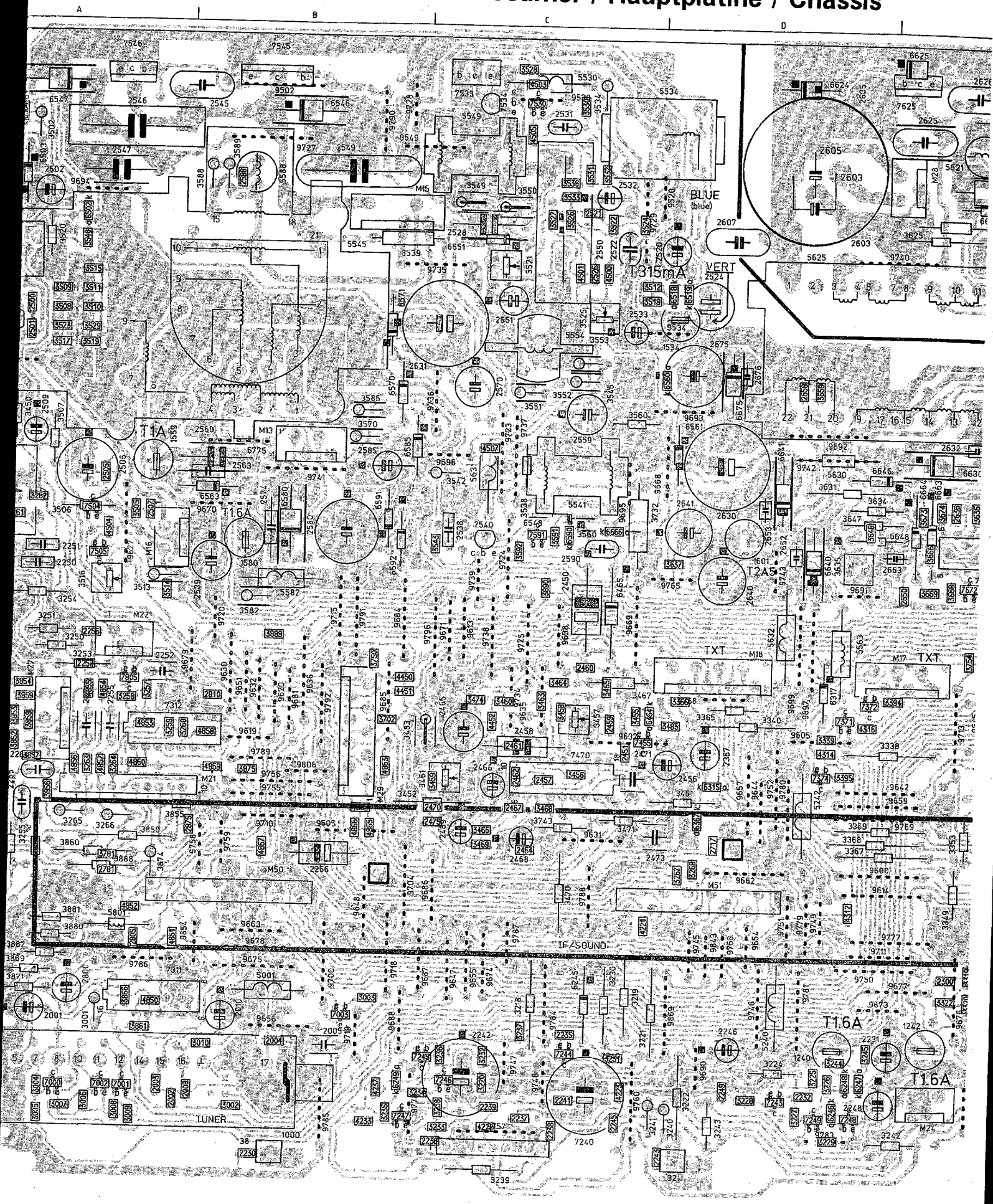
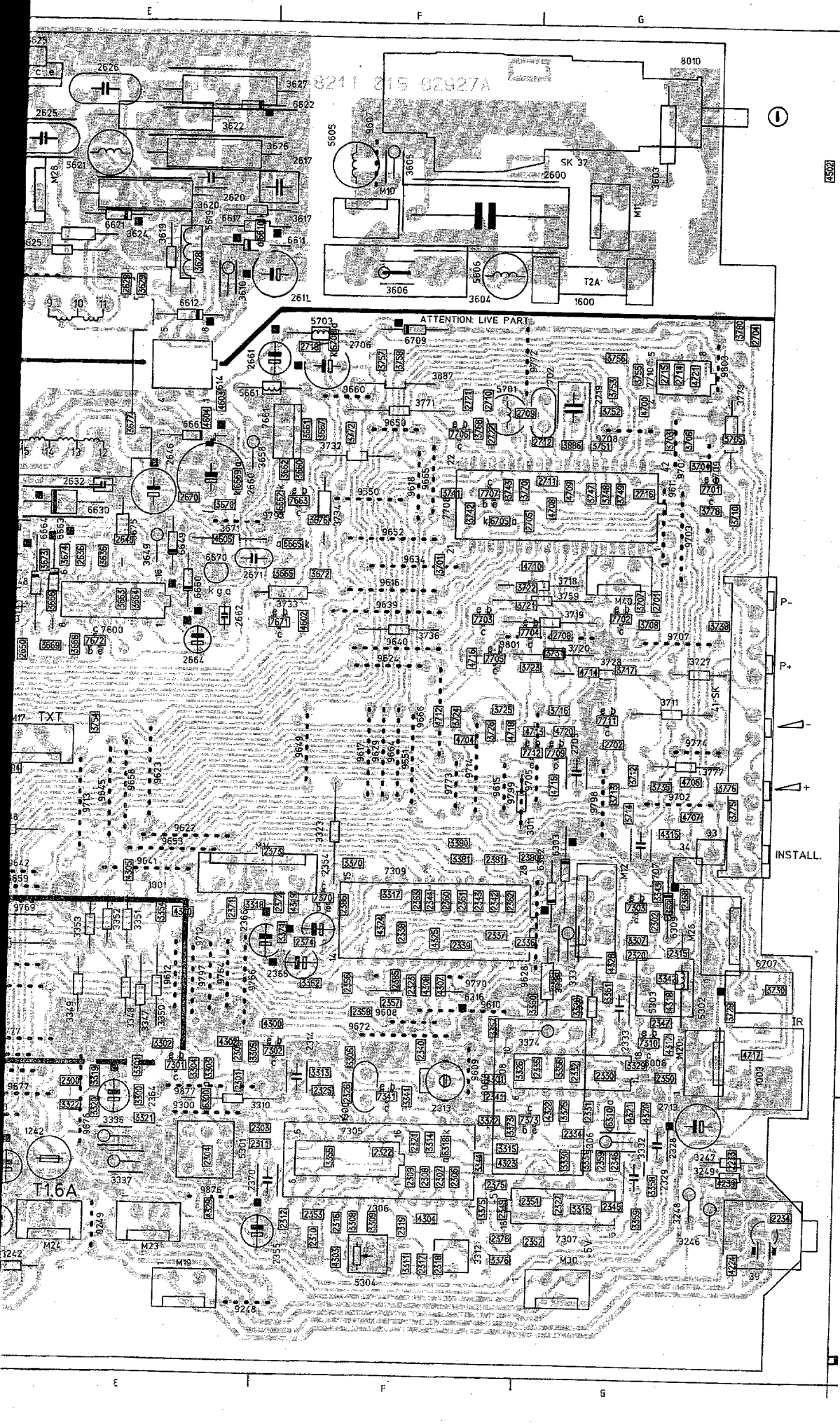


Monocarrier / Hauptplatine / Châssis





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M15 B1	2353 F5	2714 G2	3357	
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M18 C3	2356 F4	2717 D4	3360	
M19 E5	2357 F4	2718 E2	3361	
M20 G5	2358 F4	2719 G2	3362	
M21 A4	2359 G5	2721 F2	3365	
M22 A3	2360 F4	2722 F2	3366	
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M24 E5	2362 F4	2800 A5	3368	
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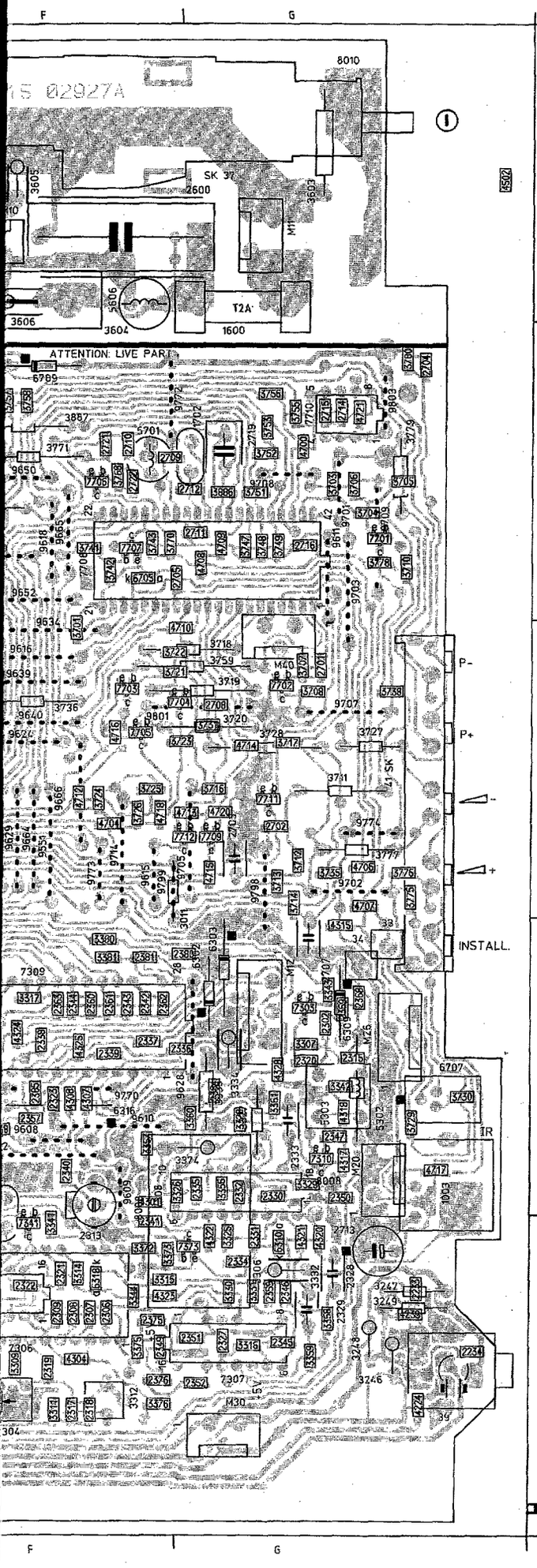
2337 F4	2675 D2	3340 D4	3624	
2338 F4	2676 D2	3341 F5	3625	
2339 F4	2701 G3	3342 G4	3626	
2340 F4	2702 G3	3343 G4	3627	
2341 F5	2703 G3	3344 F5	3628	
2342 F4	2704 G2	3347 E4	3629	
2343 F4	2705 F2	3348 E4	3631	
2344 F4	2706 F2	3349 E4	3634	
2345 G5	2707 G4	3350 E4	3635	
2346 G5	2708 F3	3351 E4	3636	



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M10 F1	2347 G4	2709 F2	3352 E4	3637 C3	4304 F5	6570 B2	9622 E4	9773 F3
M11 G1	2349 F5	2710 F2	3353 E4	3647 D3	4305 E4	6571 B2	9623 E3	9774 G3
M12 G4	2350 G5	2711 F2	3354 E4	3648 D3	4307 F4	6580 B3	9624 F3	9775 B2
M13 B2	2351 F5	2712 F2	3355 F5	3649 E3	4308 F4	6585 B2	9626 A2	9777 D4
M14 E4	2352 F5	2713 G5	3356 F5	3658 E2	4310 E4	6590 C3	9627 A3	9778 B5
M15 B1	2353 F5	2714 G2	3357 F4	3659 D2	4312 D4	6591 B3	9628 F4	9779 D4
M16 A3	2354 F4	2715 G2	3358 G5	3660 E2	4314 D4	6592 B3	9629 F3	9780 D4
M17 D3	2355 E5	2716 G2	3359 G5	3661 E2	4315 G4	6610 E1	9630 B3	9781 D5
M18 C3	2356 F4	2717 D4	3360 F4	3662 E2	4316 D4	6611 E1	9631 C4	9783 D5
M19 E5	2357 F4	2718 E2	3361 G4	3663 E3	4317 G4	6612 E2	9632 B3	9784 C5
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M23 E5	2361 F4	2781 A4	3367 D4	3667 F2	4321 G5	6624 D1	9637 C4	9788 C4
M24 E5	2362 F4	2800 A5	3368 D4	3668 E3	4322 F5	6625 D1	9638 C3	9789 B4
M26 G4	2363 F4	2805 A4	3369 D4	3669 E3	4323 F5	6630 E2	9639 F3	9790 B1
M27 A4	2364 E5	2810 A3	3370 F4	3670 E2	4324 F4	6640 D3	9640 F3	9791 B3
M28 D1	2365 F4	2875 A4	3371 E4	3671 E3	4325 F4	6641 D3	9641 E4	9792 B3
M29 B3	2366 E4	3001 A5	3372 F5	3672 F3	4328 G4	6646 D2	9642 D4	9793 E2
M30 F5	2367 D4	3002 B5	3373 F5	3673 D3	4329 E5	6648 D3	9644 D4	9796 B3
M40 G3	2368 G4	3003 B5	3374 F4	3674 E3	4450 B3	6649 E3	9645 E3	9797 E4
M50 B4	2369 G4	3004 A5	3375 F5	3675 E3	4451 B3	6660 E3	9646 B5	9798 G4
M51 D4	2370 E5	3005 A5	3376 F5	3676 F2	4452 C4	6661 E2	9647 B5	9799 F3
0032 C5	2371 E4	3006 A5	3380 F4	3677 E2	4500 C2	6662 E2	9648 B4	9801 F3
0033 G4	2372 E4	3007 A5	3381 F4	3701 F3	4501 C2	6663 E3	9649 F3	9803 G2
0034 G4	2373 E4	3008 A5	3394 D3	3702 B4	4502 G1	6664 D3	9650 F2	9806 B4
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0038 B5	2376 F5	3218 C5	3451 C4	3705 G2	4505 C1	6669 E2	9653 E4	9869 C5
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0047 A3	2384 F4	3221 C5	3456 C4	3708 G3	4602 E3	6705 F2	9656 B5	
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1240 D5	2451 C4	3226 D5	3460 C3	3713 G3	4700 G2	7000 A5	9660 F2	
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1600 G2	2461 C4	3232 C5	3467 C3	3720 F3	4710 F3	7244 C5	9668 C2	
1601 D3	2462 C4	3233 B5	3468 C4	3721 F3	4712 F3	7245 B5	9668 C3	
1702 F2	2464 C4	3234 B5	3469 C4	3722 F3	4713 F3	7246 B5	9670 A3	
2001 A5	2465 C4	3235 B5	3470 C4	3723 F3	4714 G3	7247 B5	9671 B3	
2002 A5	2466 C4	3236 B5	3471 C4	3724 F3	4715 F3	7248 D5	9672 F4	
2003 A5	2467 C4	3237 C5	3473 C4	3725 F3	4716 F3	7249 D5	9673 D5	
2004 B5	2468 C4	3238 B5	3474 C3	3726 F3	4717 G4	7301 E5	9674 C5	
2008 A5	2469 C4	3239 C5	3483 B4	3727 G3	4718 F3	7302 E4	9675 B5	
2230 B5	2470 B4	3240 C5	3485 C4	3728 G3	4720 F3	7303 G4	9676 E5	
2231 D5	2471 C4	3241 C5	3501 A2	3729 G4	4721 G2	7305 F5	9677 D5	
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2233 G5	2475 B4	3243 D5	3503 A1	3731 F3	4851 A4	7307 F5	9679 A3	
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2238 C5	2506 A3	3248 G5	3508 A2	3736 F3	4856 A4	7312 A4	9687 B5	
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2240 C5	2509 A2	3250 A3	3510 A2	3738 G3	4858 A4	7370 F4	9690 D5	
2241 C5	2520 C2	3251 A3	3511 A2	3741 F2	4859 A4	7371 D4	9691 D3	
2242 C5	2521 C1	3253 A3	3512 C2	3742 F2	4860 A4	7372 D3	9692 D2	
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2345 G5	2707 G4	3350 E4	3635 D3	4302 E4	6561 C2	9619 B4	9770 F4	
2346 G5	2708 F3	3351 E4	3636 E3	4303 F5	6563 A3	9620 B3	9772 F2	

Picture tube module 25"/28" (16/9)
Bildröhren Modul 25"/28" (16/9) /
Module support tube image 25"/28" (16/19)

C 09	B4	2434	C2	3332	B4	3370	C3	3413	A4	3444	A2	6421	A4	7391	A2
C 13	A3	2440	A3	3333	B4	3371	C3	3414	B4	3447	A2	7301	B3	7411	A4
C 15	B4	2441	A3	3334	B3	3372	C3	3415	A4	3448	A2	7302	B3	7421	A4
C 19	A1	3001	B4	3338	A3	3373	C2	3421	A4	4000	B4	7303	B3	7430	A4
C 20	B4	3302	B2	3339	A3	3374	C1	3422	A4	4002	A4	7304	B3	7431	A2
C 21	B1	3303	C3	3340	B3	3375	C3	3423	A3	4003	A2	7305	B2	7432	A2
C 22	C1	3304	B3	3341	B3	3376	C3	3431	A1	4005	A3	7331	A3	7434	A2
2301	B3	3308	B3	3342	B3	3377	C3	3432	C4	4007	B2	7332	A3	8000	C1
2331	B4	3309	B3	3343	A3	3388	B3	3433	A1	4008	C2	7333	B4	9000	C3
2361	C4	3310	C3	3344	A2	3391	A2	3434	C1	4008	A3	7334	A3	9001	B4
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2411	A3	3312	B2	3361	B4	3393	A1	3436	C1	5401	A1	7345	A3	9003	C2
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2431	A2	23315	C3	3364	C4	3396	B3	3440	A3	6345	A2	7363	C3	9007	B2
2432	A2	3316	C3	3368	C3	3397	B3	3442	A2	6361	C2	7364	C3	9008	C2
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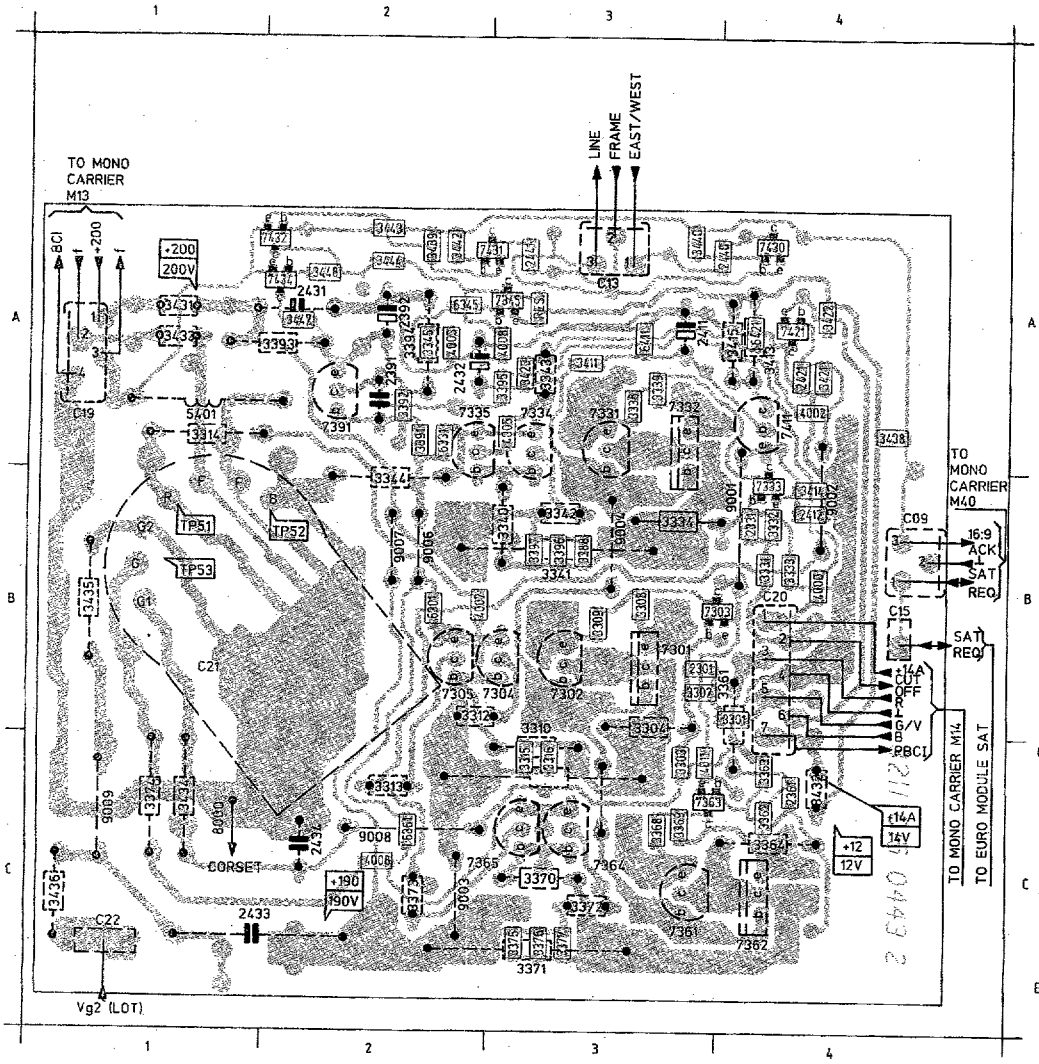
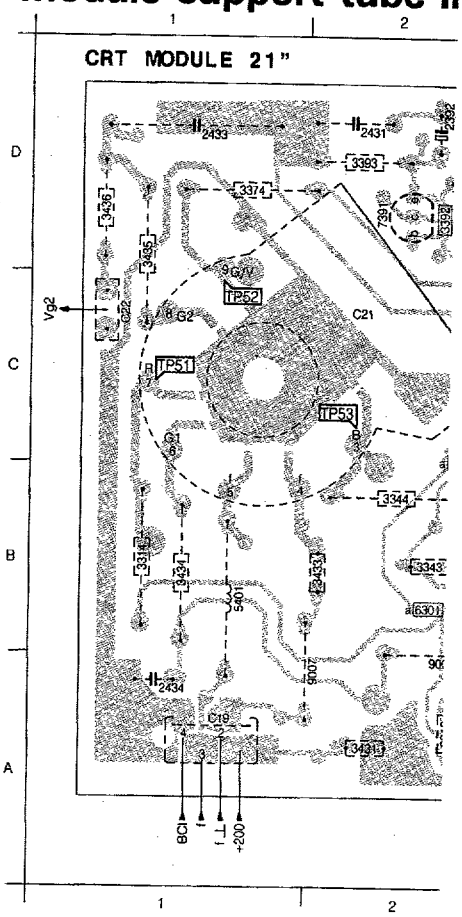
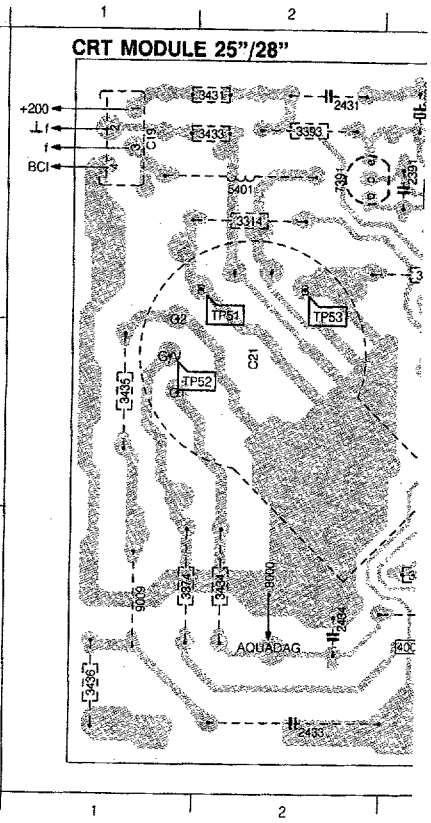


Picture tube module 2
Module support tube i



Picture tube module 2
Module support tube i



dule 25"/28" (16/9)
l 25"/28" (16/9) /
tube image 25"/28" (16/19)

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72	C3	3415	A4	3448	A2	7302	B3	7421	A4
73	C2	3421	A4	4000	B4	7303	B3	7430	A4
74	C1	3422	A4	4002	A4	7304	B3	7431	A2
75	C3	3423	A3	4003	A2	7305	B2	7432	A2
76	C3	3431	A1	4005	A3	7331	A3	7434	A2
77	C3	3432	C4	4007	B2	7332	A3	8000	C1
88	B3	3433	A1	4008	C2	7333	B4	9000	C3
91	A2	3434	C1	4008	A3	7334	A3	9001	B4
92	A2	3435	B1	4011	C3	7335	A2	9002	B4
93	A1	3436	C1	5401	A1	7345	A3	9003	C2
94	A2	3438	A4	6301	B2	7361	C3	9004	B3
95	A3	3439	A2	6331	A2	7362	C4	9006	B2
96	B3	3440	A3	6345	A2	7363	C3	9007	B2
97	B3	3442	A2	6361	C2	7364	C3	9008	C2
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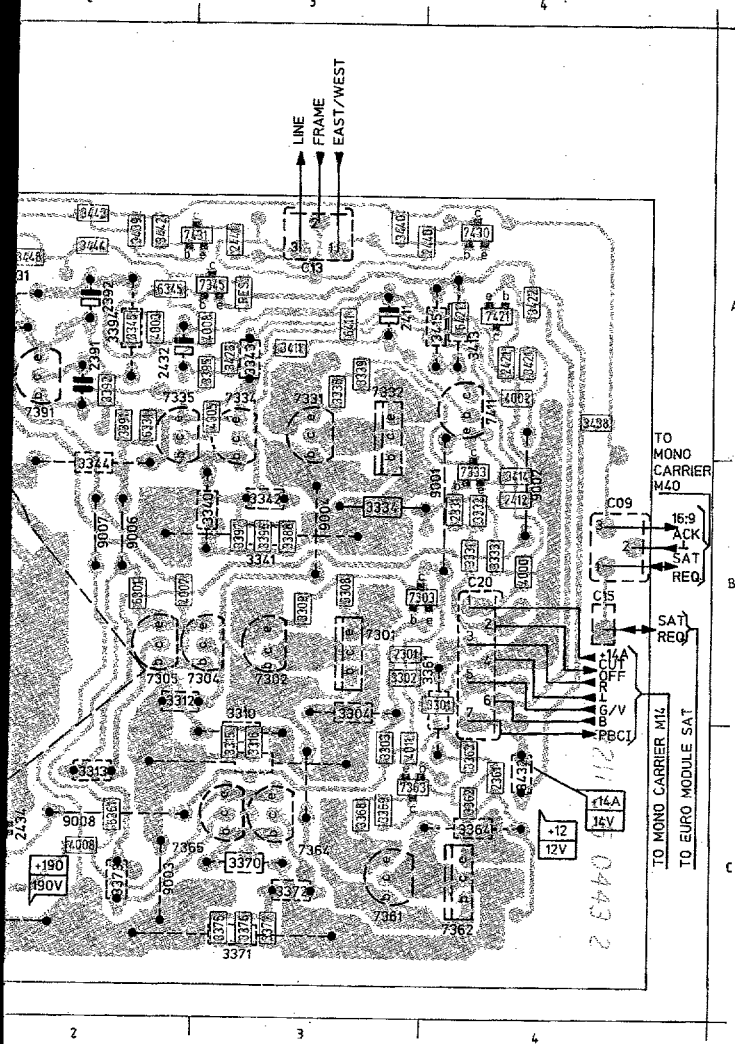
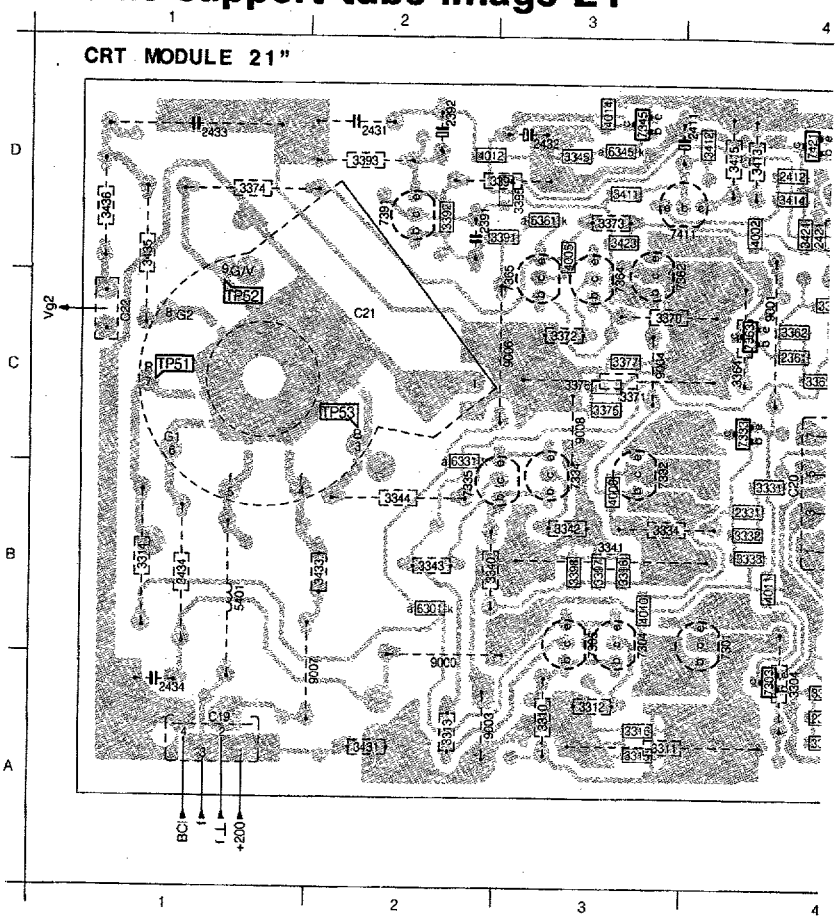


Picture tube module 21" / Bildröhren Mod
Module support tube image 21"



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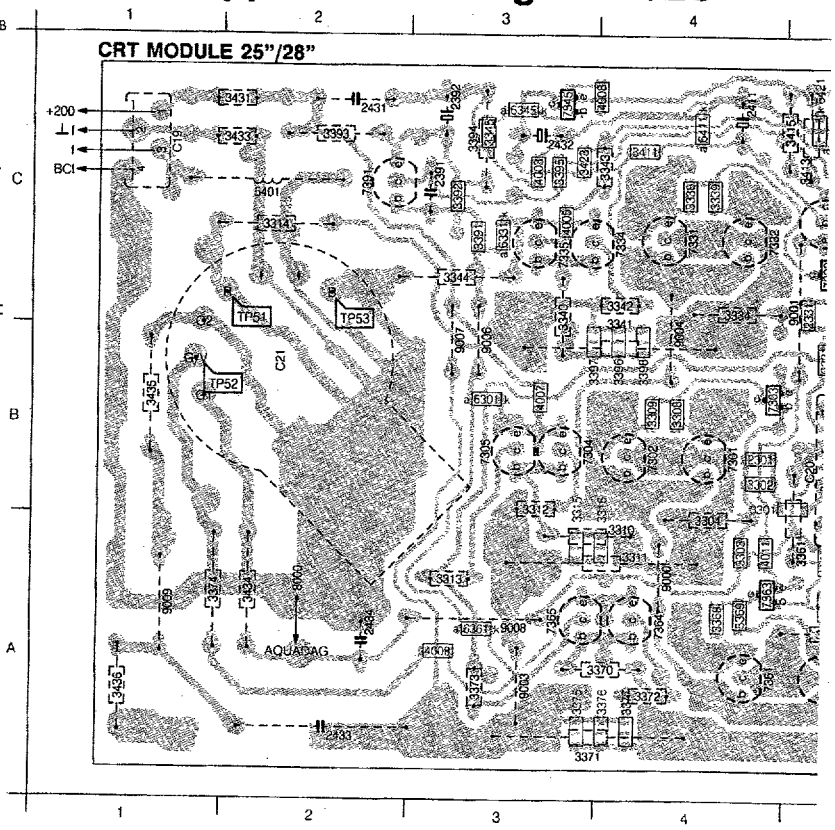
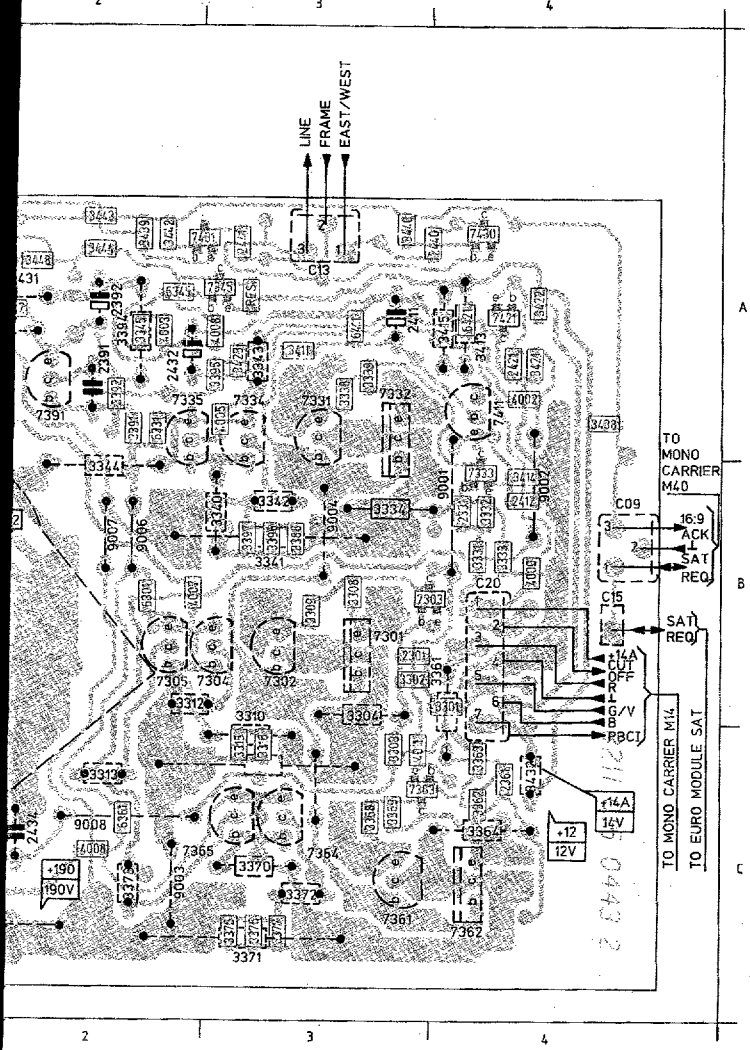
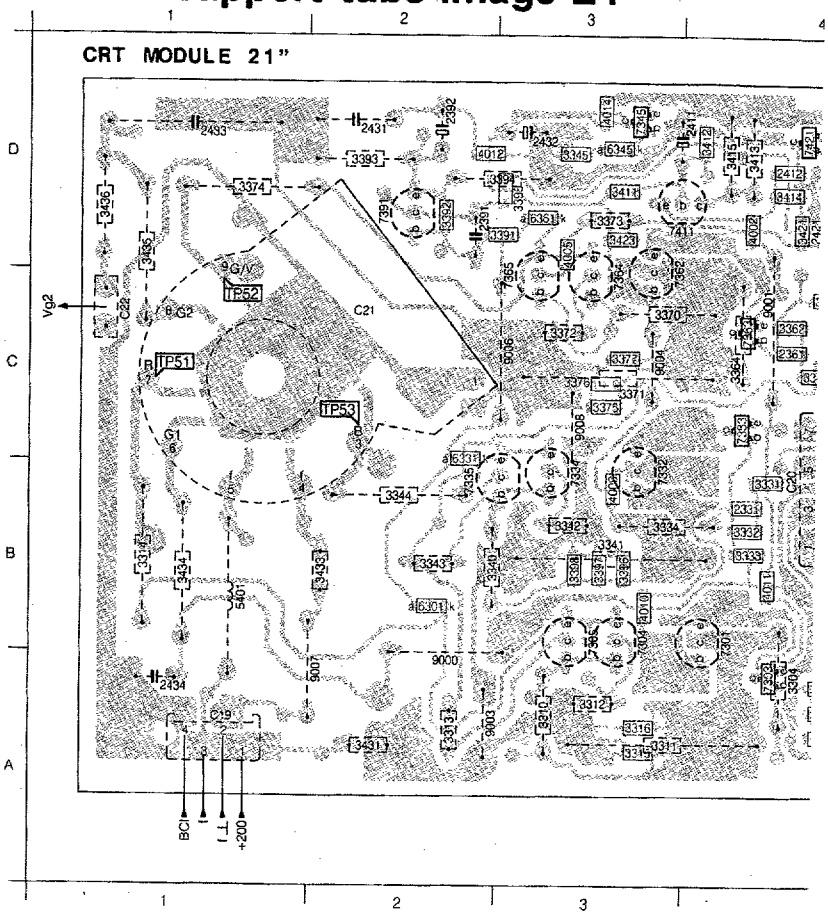


dule 25"/28" (16/9)
l 25"/28" (16/9) /
tube image 25"/28" (16/19)

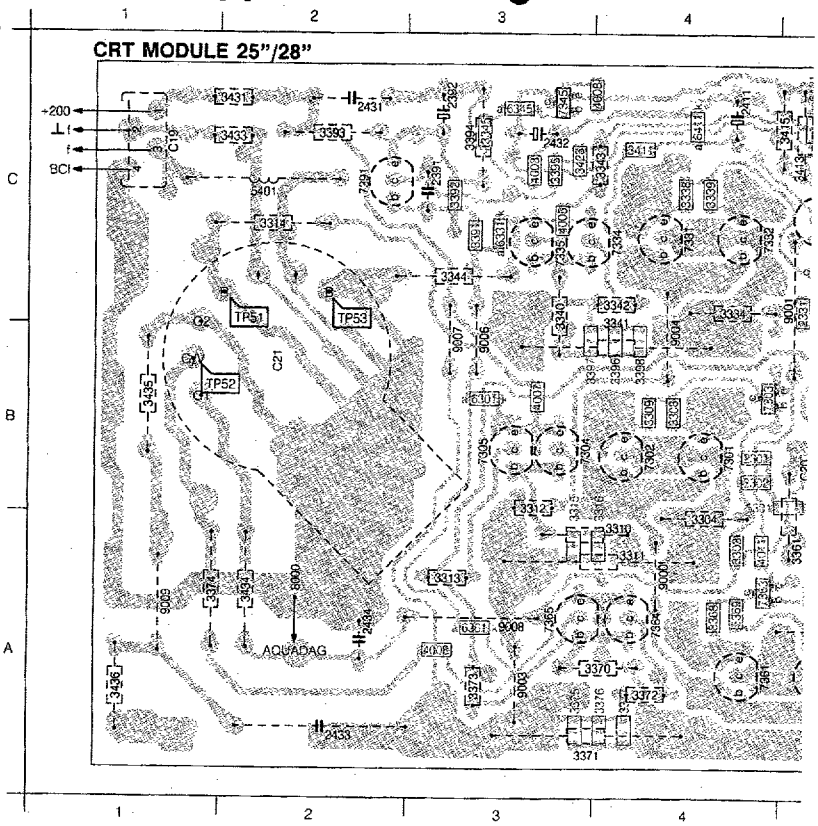
370	C3	3413	A4	3444	A2	6421	A4	7391	A2
371	C3	3414	B4	3447	A2	7301	B3	7411	A4
372	C3	3415	A4	3448	A2	7302	B3	7421	A4
373	C2	3421	A4	4000	B4	7303	B3	7430	A4
374	C1	3422	A4	4002	A4	7304	B3	7431	A2
375	C3	3423	A3	4003	A2	7305	B2	7432	A2
376	C3	3431	A1	4005	A3	7331	A3	7434	A2
377	C3	3432	C4	4007	B2	7332	A3	8000	C1
388	B3	3433	A1	4008	C2	7333	B4	9000	C3
391	A2	3434	C1	4008	A3	7334	A3	9001	B4
392	A2	3435	B1	4011	C3	7335	A2	9002	B4
393	A1	3436	C1	5401	A1	7345	A3	9003	C2
394	A2	3438	A4	6301	B2	7361	C3	9004	B3
395	A3	3439	A2	6331	A2	7362	C4	9006	B2
396	B3	3440	A3	6345	A2	7363	C3	9007	B2
397	B3	3442	A2	6361	C2	7364	C3	9008	C2
411	A3	3443	A2	6411	A3	7365	C3	9009	C1



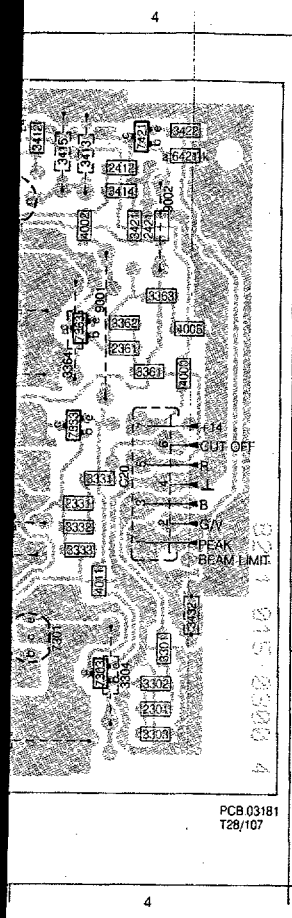
Picture tube module 21" / Bildröhren Mod
Module support tube image 21"



Picture tube module 25"/28" / Bildröhren
Module support tube image 25"/28"



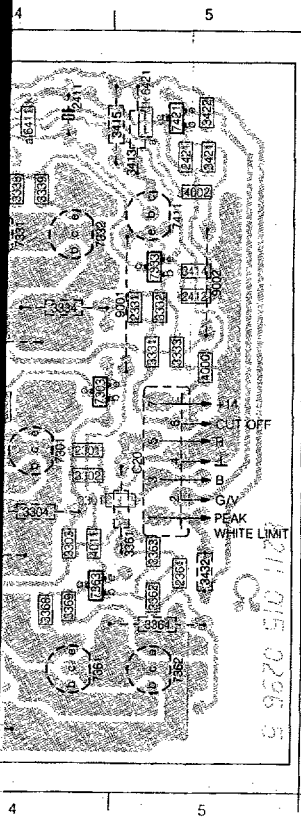
en Modul 21" /



PCB 03181
T28/107

C19	A1	3422	D4
C20	B4	3423	D3
C21	C2	3431	A2
C22	C1	3432	B4
2301	A4	3433	B2
2331	B4	3434	B1
2361	C4	3435	D1
2391	D2	3436	D1
2392	D2	4000	C4
2411	D4	4002	D4
2412	D4	4005	D3
2421	D4	4006	C4
2431	D2	4009	B3
2432	D3	4010	B3
2433	D1	4011	B4
2434	A1	4012	D2
3301	B4	4014	D3
3302	A4	5401	B1
3303	A4	6301	B2
3304	A4	6331	C2
3310	A3	6345	D3
3311	A3	6361	D3
3312	A3	6421	D4
3313	A2	7301	B4
3314	B1	7303	A4
3315	A3	7304	B3
3316	A3	7305	B3
3331	B4	7332	C3
3332	B4	7333	C4
3333	B4	7334	C3
3334	B3	7335	B2
3340	B3	7345	D3
3341	B3	7362	D3
3342	B3	7363	C4
3343	B2	7364	D3
3344	B2	7365	D3
3345	D3	7391	D2
3361	C4	7411	D3
3362	C4	7421	D4
3363	C4	9000	B2
3364	C4	9001	C4
3370	C3	9002	D4
3371	C3	9003	A2
3372	C3	9004	C3
3373	D3	9006	C3
3374	D1	9007	A2
3375	C3	9008	C3
3376	C3		
3377	C3		
3391	D2		
3392	D2		
3393	D2		
3394	D2		
3395	D3		
3396	B3		
3397	B3		
3398	B3		
3411	D3		
3412	D4		
3413	D4		
3414	D4		
3415	D4		
3421	D4		

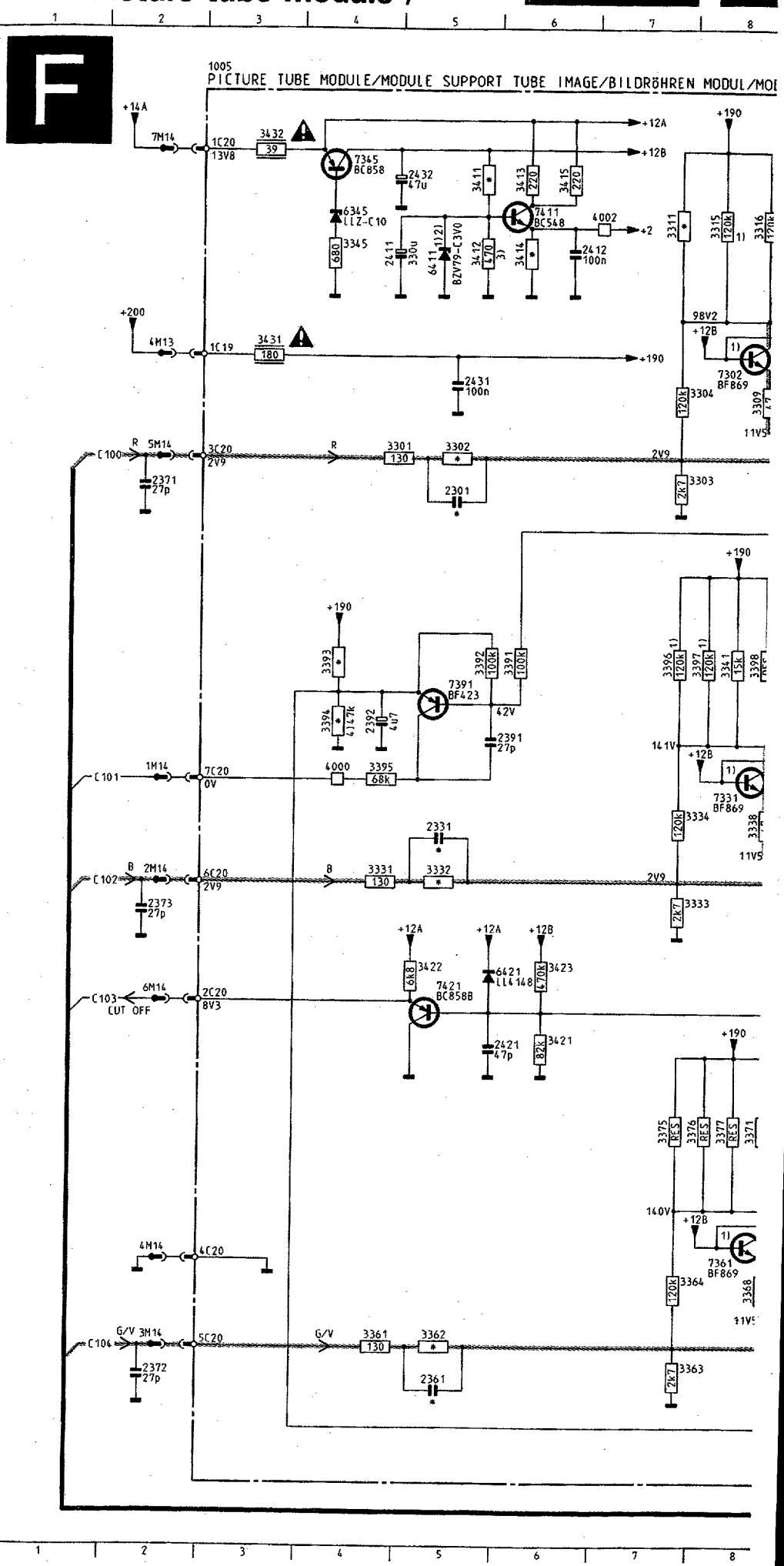
dröhren Modul 25"/28" /
8"



PCB 03177
T28/106

C19	C1	3397	B3
C20	B5	3398	B4
C21	B2	3411	C4
2301	B4	3413	C5
2331	C5	3414	C5
2361	A5	3415	C5
2391	C3	3421	C5
2392	C3	3422	C5
2411	C4	3423	C3
2412	C5	3431	C1
2421	C5	3432	A5
2431	C2	3433	C1
2432	C3	3434	A2
2433	A2	3435	B1
2434	A2	3436	A1
3301	B4	4000	B5
3302	B4	4002	C5
3303	A4	4003	C3
3304	B4	4005	C3
3308	B4	4007	B3
3309	B4	4008	A3
3310	A4	4008	C4
331.	A4	4011	A4
3312	B3	5401	C2
3313	A3	6301	B3
3314	C2	6331	C3
3315	B3	6345	C3
3316	B4	6361	A3
3331	B5	6411	C4
3332	C5	6421	C5
3333	B5	7301	B4
3334	C4	7302	B4
3338	C4	7303	B4
3339	C4	7304	B3
3340	C3	7305	B3
3341	C4	7331	C4
3342	C4	7332	C4
3343	C4	7333	C5
3344	C3	7334	C4
3345	C3	7335	C3
3361	A5	7345	C3
3362	A5	7361	A4
3363	A5	7362	A5
3364	A5	7363	A4
3368	A4	7364	A4
3369	A4	7365	A3
3370	A3	7391	C2
3371	A3	7411	C5
3372	A4	7421	C5
3373	A3	8000	A2
3374	A1	9000	A4
3375	A3	9001	C5
3376	A4	9002	C5
3377	A4	9003	A3
3391	C3	9004	C4
3392	C3	9006	B3
3393	C2	9007	B3
3394	C3	9008	A3
3395	C3	9009	A1
3396	B4		

Picture tube module /



Bildröhren Modul / Module support tube image

F

/MODULO CRT/MODULO TUBO DE IMAGEN

SEE SERVICE MANUAL "REMARKS" SIEHE ANMERKUNGEN IN DER SERVICE DOKUMENTATION VEDERE NOTE SU DOCUMENTATIONE VER OBSERVACIONES EN ET DOCUMENTACION

TP51 1 — 65V _ 130V
TP51 2 — 50V _ 130V
TP51 3 — 70V _ 115V
TP52 1 — 75V _ 120V
TP52 2 — 56V _ 120V
TP52 3 — 72V _ 115V
TP53 2 — 66V _ 120V
TP53 1 — 80V _ 120V
TP53 3 — 76V _ 110V

8000 — 25"/28" 21" — 1990

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) BLACK-LINE 25"/28"
2) NON BLACK-LINE 28"
3) NON BLACK-LINE 21"
4) BLACK-LINE 25"/28" 16:9

*	1)	2)	3)
2301	47p	27p	18p
2331	47p	27p	18p
2361	47p	27p	18p
3302	2k2	3k6	3k6
3308	47	1	0
3311	12k	15k	15k
3332	2k2	3k6	3k6
3339	47	1	0
3362	2k2	3k6	3k6
3369	47	1	0
3371	10k	15k	15k
3393	100k	82k	82k
3394	39k	30k	30k
3411	1k8	1k8	1k5
3414	51	51	47
5401	33u	82u	33u

7364	L10		
7365	M 9		
7391	G 5		
7411	B 6		
7421	J 5		
7430	L13		
7431	L13		
7432	N13		
7434	N13		

	1005	A 2	
	1990	D16	
	2301	E 5	
	2331	H 5	
A	2361	N 5	
	2371	E 2	
	2372	N 2	
	2373	I 2	
	2391	H 5	
	2392	G 4	
	2411	C 4	
	2412	C 6	
B	2421	K 5	
	2431	D 5	
	2432	B 5	
	2433	H13	
	2434	I 13	
	2435	H13	
	2440	K13	
	2441	L13	
C	3301	E 4	
	3302	E 5	
	3303	E 7	
	3304	D 7	
	3308	D 9	
	3309	D 8	
	3310	C 9	
D	3311	B 7	
	3312	B10	
	3313	G10	
	3314	D12	
	3315	B 8	
	3316	B 8	
	3331	I 4	
	3332	I 5	
E	3333	I 7	
	3334	H 7	
	3338	H 8	
	3339	H 9	
	3340	G 9	
	3341	G 8	
	3342	G 9	
F	3343	I 10	
	3344	D12	
	3345	B 4	
	3361	N 4	
	3362	N 5	
	3363	N 7	
	3364	M 7	
	3368	M 8	
G	3369	M 9	
	3370	L 9	
	3371	K 8	
	3372	K 9	
	3373	K10	
	3374	D12	
	3375	K 7	
	3376	K 8	
H	3377	K 8	
	3391	G 6	
	3392	G 5	
	3393	G 4	
	3394	G 4	
	3395	H 4	
	3396	G 7	
I	3397	G 8	
	3398	G 8	
	3411	B 5	
	3412	C 5	
	3413	B 6	
	3414	C 6	
	3415	B 6	
J	3421	J 6	
	3422	J 5	
	3423	J 6	
	3431	D 3	
	3432	A 3	
	3433	E14	
	3434	E14	
	3435	F13	
K	3436	H14	
	3438	L11	
	3439	M11	
	3440	L12	
	3442	L12	
	3443	N12	
	3444	M13	
	3447	N12	
L	3448	N13	
	4000	H 4	
	4002	B 7	
	4005	I 10	
	4007	D12	
	4008	D12	
	4011	N 9	
M	5401	E13	
	6301	E11	
	6331	E11	
	6345	B 4	
	6361	E11	
	6411	C 5	
	6421	J 6	
	7301	D 9	
N	7302	D 8	
	7303	E 9	
	7304	C10	
	7305	D10	
	7331	H 8	
	7332	H 9	
	7333	I 9	
	7334	H10	
O	7335	H 9	
	7345	B 4	
	7361	M 8	
	7362	M 9	
	7363	N 9	

PRS 06913
T-26/105

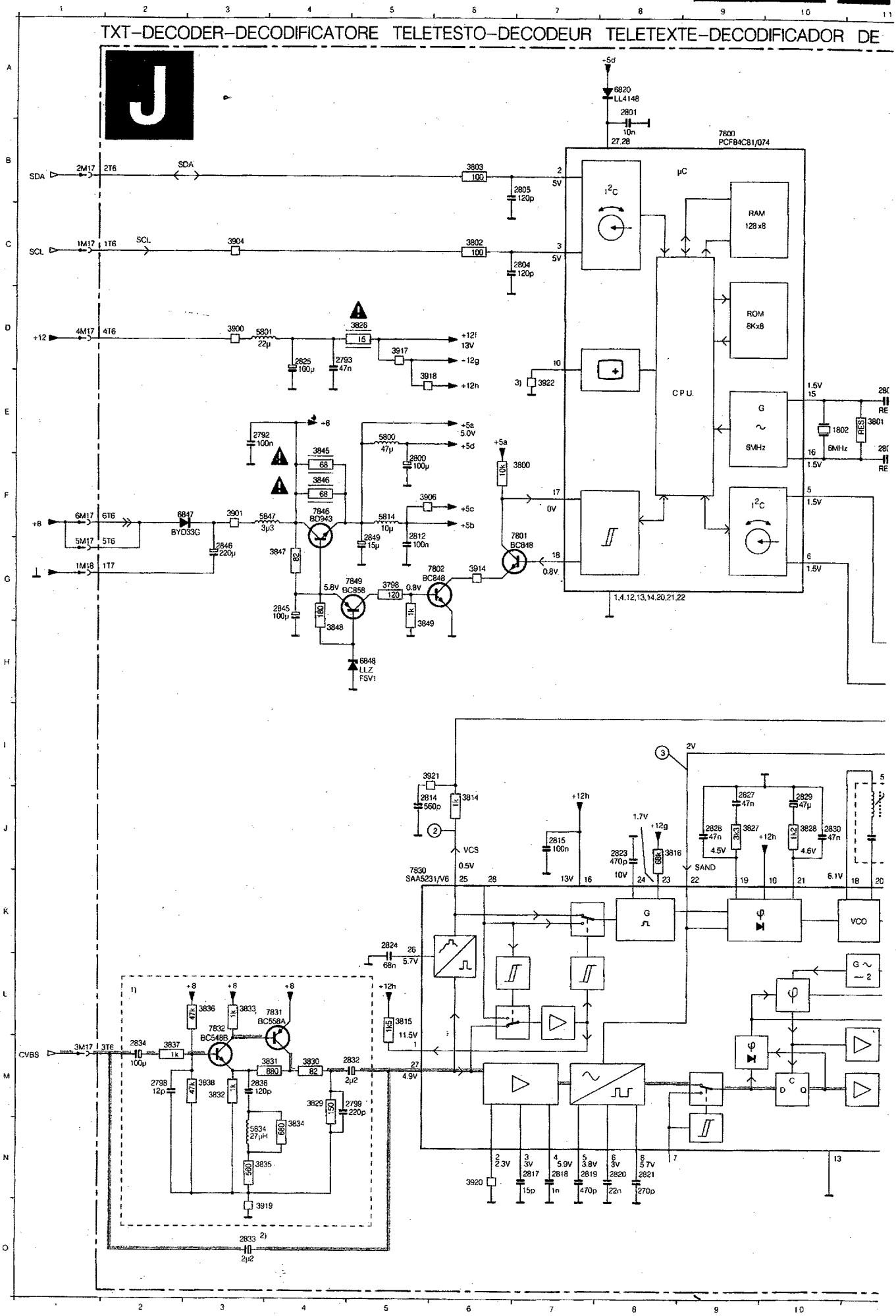
16/9 REQUEST

A+C+D

CHASSIS GR2.1

CL16532082/015,FREF
221191

TXT–DECODER–DECODIFICATORE TELETESTO–DECODEUR TELETEXTE–DECODIFICADOR DE



OR DE TELETEX

J

REMARKS/ REMARQUES/ ANMERKUNGEN/ NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEEND IN GERAETEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) SCAN
2) NON SCAN
3) NON ES

RAM

CCT

CHASSIS GR2.1

PRS 06854
T-08 104

1801 L12
1802 E10
2792 E3
2793 D4
2794 I20
2795 I20
2796 I20
2797 L20
2798 M2
2799 M4
2800 F5
2801 A8
2802 E11
2803 E11
2804 C6
2805 B6
2810 G19
2811 A16
2812 G5
2813 M12
2814 J5
2815 J7
2816 J12
2817 N7
2818 N7
2819 N7
2820 N8
2821 N8
2822 L11
2823 J8
2824 K5
2825 D4
2826 L12
2827 J9
2828 J9
2829 J10
2830 J10
2832 M5
2833 C3
2834 M2
2836 M3
2845 G4
2846 G3
2849 G5
3795 J20
3796 K19
3797 A15
3798 G5
3800 F6
3801 E11
3802 C6
3803 B6
3804 L19
3805 K18
3807 I18
3808 J19
3809 J18
3810 J18
3811 J18
3812 G18
3813 G20
3814 J6
3815 L5
3816 J8
3817 G18
3818 F12
3819 F12
3820 E13
3821 E13
3822 E14
3823 E18
3824 G18
3825 G19
3826 D5
3827 J9
3828 J10
3829 M4
3830 M4
3831 M4
3832 M3
3833 L3
3834 N4
3835 N3
3836 L3
3837 M2
3838 M3
3839 F17
3840 F17
3841 E17
3842 E17
3843 E16
3845 E4
3846 F4
3847 G4
3848 H4
3849 H5
3900 D3
3901 F3
3904 C3
3906 F5
3908 I17
3910 K18
3913 I20
3914 G6
3915 J20
3917 D5
3918 E5
3919 O4
3920 N6
3921 I6
3922 E7
5800 E5
5801 D3
5803 I11
5814 F5
5816 J12
5834 N3
5847 F4
6809 I18
6810 H19
6811 H19
6812 H19
6813 G20
6814 L20
6820 A8
6847 F3
6848 H5
7800 B9
7801 F7
7802 G5
7803 K19
7810 A17
7811 J19
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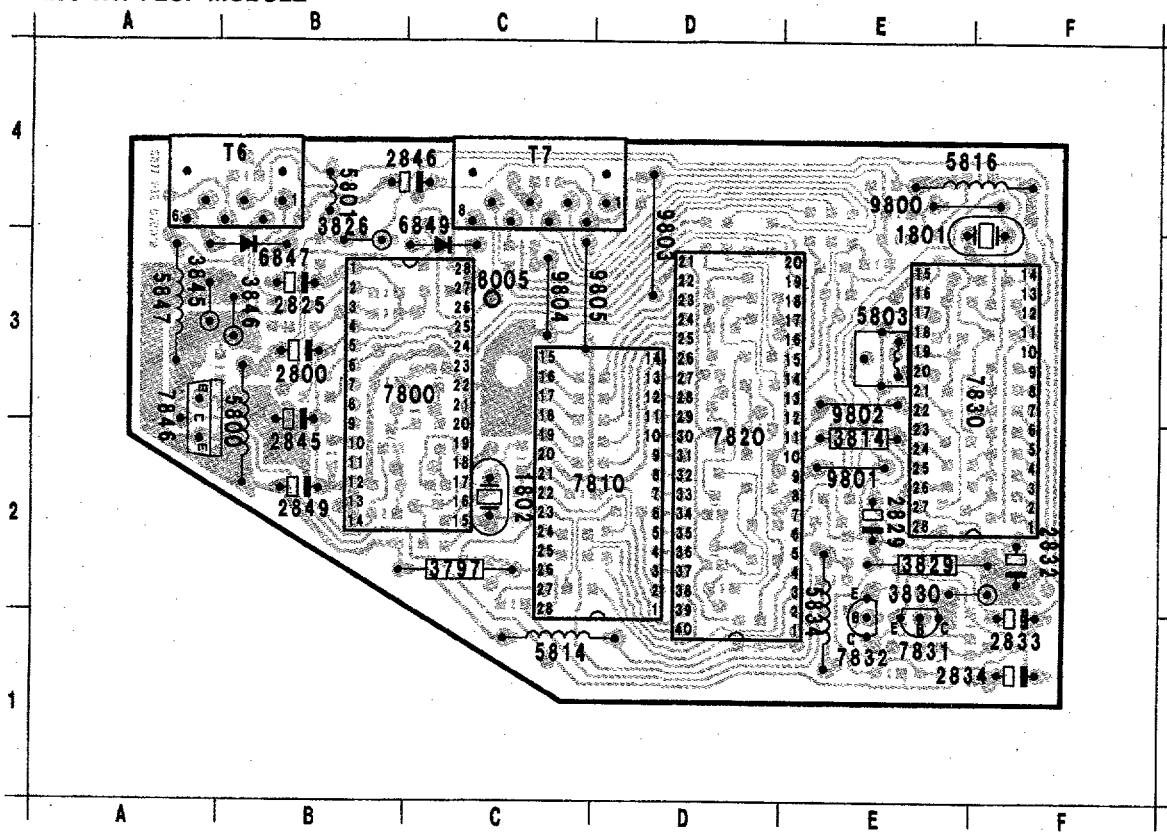
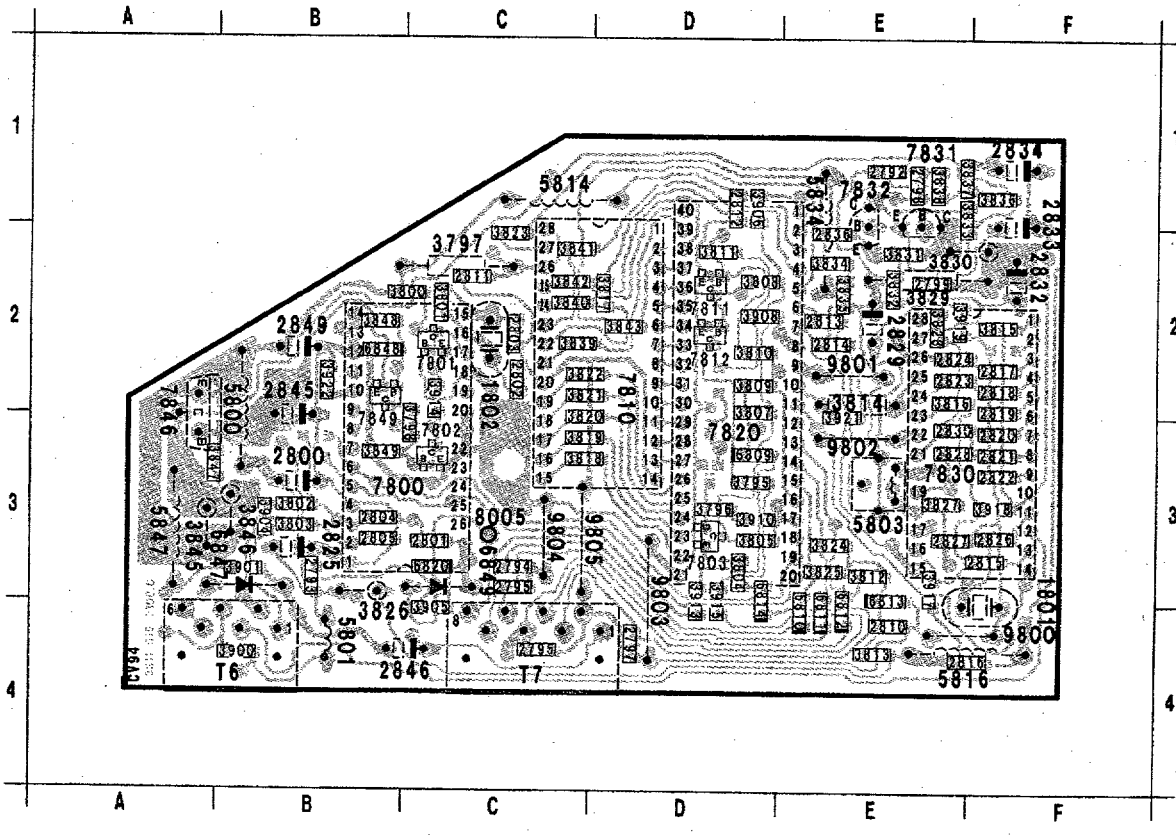
7820 F13
7830 K5
7831 L4
7832 L3
7846 F4
7849 G5

1290 TXT FLOF MODULE





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1802	E10		T7	C 4	3848 B 2
2792	E3		1801	F 3	3849 B 3
2793	D4		1802	C 2	3900 B 4
2794	I 20		2792	E 1	3901 B 3
2795	I 20	4	2793	B 3	3904 B 3
2796	I 20		2794	C 3	3905 C 4
2797	L20		2795	C 3	3906 D 1
2798	M2		2796	C 4	3908 D 2
2799	M4		2797	D 4	3910 D 3
2800	F5		2798	E 1	3913 D 3
2801	A8		2799	E 2	3914 C 2
2802	E11		2800	B 3	3915 D 3
2803	E11		2801	C 3	3917 E 3
2804	C6		2802	C 2	3918 F 3
2805	B6	3	2803	C 2	3919 E 2
2810	G19		2804	B 3	3921 E 2
2811	A16		2805	B 3	3922 B 2
2812	G5		2810	E 4	5800 B 2
2813	M12		2811	C 2	5801 B 4
2814	J5		2812	D 1	5803 E 3
2815	J7		2813	E 2	5814 C 1
2816	J12		2814	E 2	5816 E 4
2817	N7		2815	F 3	5834 E 1
2818	N7		2816	F 4	5847 A 3
2819	N7	2	2817	F 2	6809 D 3
2820	N8		2818	F 2	6810 E 4
2821	N8		2819	F 2	6811 E 4
2822	L11		2820	F 3	6812 E 4
2823	J8		2821	F 3	6813 E 3
2824	K5		2822	F 3	6814 D 3
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2826	L12		2824	E 2	6847 B 3
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2828	J9		2826	F 3	6849 C 3
2829	J10	1	2827	E 3	7800 B 3
2830	J10		2828	E 3	7801 C 2
2832	M5		2829	E 2	7802 C 3
2833	O3		2830	E 3	7803 D 3
2834	M2		2832	F 2	7810 D 2
2836	M3		2833	F 1	7811 D 2
2845	G4		2834	F 1	7812 D 2
2846	G3		2836	E 2	7820 D 3
2849	G5		2845	B 2	7830 E 3
3795	J20		2846	C 4	7831 E 1
3796	K19		2849	B 2	7832 E 1
3797	A15		3795	D 3	7846 A 2
3798	G5		3796	D 3	7849 B 3
3800	F6		3797	C 2	8005 C 3
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3803	B6		3801	C 2	9802 E 3
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3805	K18		3803	B 3	9804 C 3
3807	I 18		3804	D 3	9805 D 3
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3824	G18		3822	C 2	
3825	G19		3823	C 2	
3826	D5		3824	E 3	
3827	J9		3825	E 3	
3828	J10	3	3826	B 4	
3829	M4		3827	E 3	
3830	M4		3828	E 2	
3831	M4		3829	E 2	
3832	M3		3830	E 2	
3833	L3		3831	E 2	
3834	N4		3832	E 2	
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3840	F17		3838	E 1	
3841	E17		3839	C 2	
3842	E17		3840	C 2	
3843	E16		3841	C 2	
3845	E4		3842	C 2	
3846	F4		3843	D 2	
3847	G4		3845	A 3	
3848	H4		3846	B 3	
3849	H5				
3900	D3				
3901	F3				
3904	C3				
3906	F5				
3908	I 17				
3910	K18				
3913	I 20				
3914	G6				
3915	J20				
3917	D5				
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6847	F3				
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7802	G6				
7803	K19				
7810	A17				
7811	J19				
7812	J19				
7820	F13				
7830	K5				
7831	L4				
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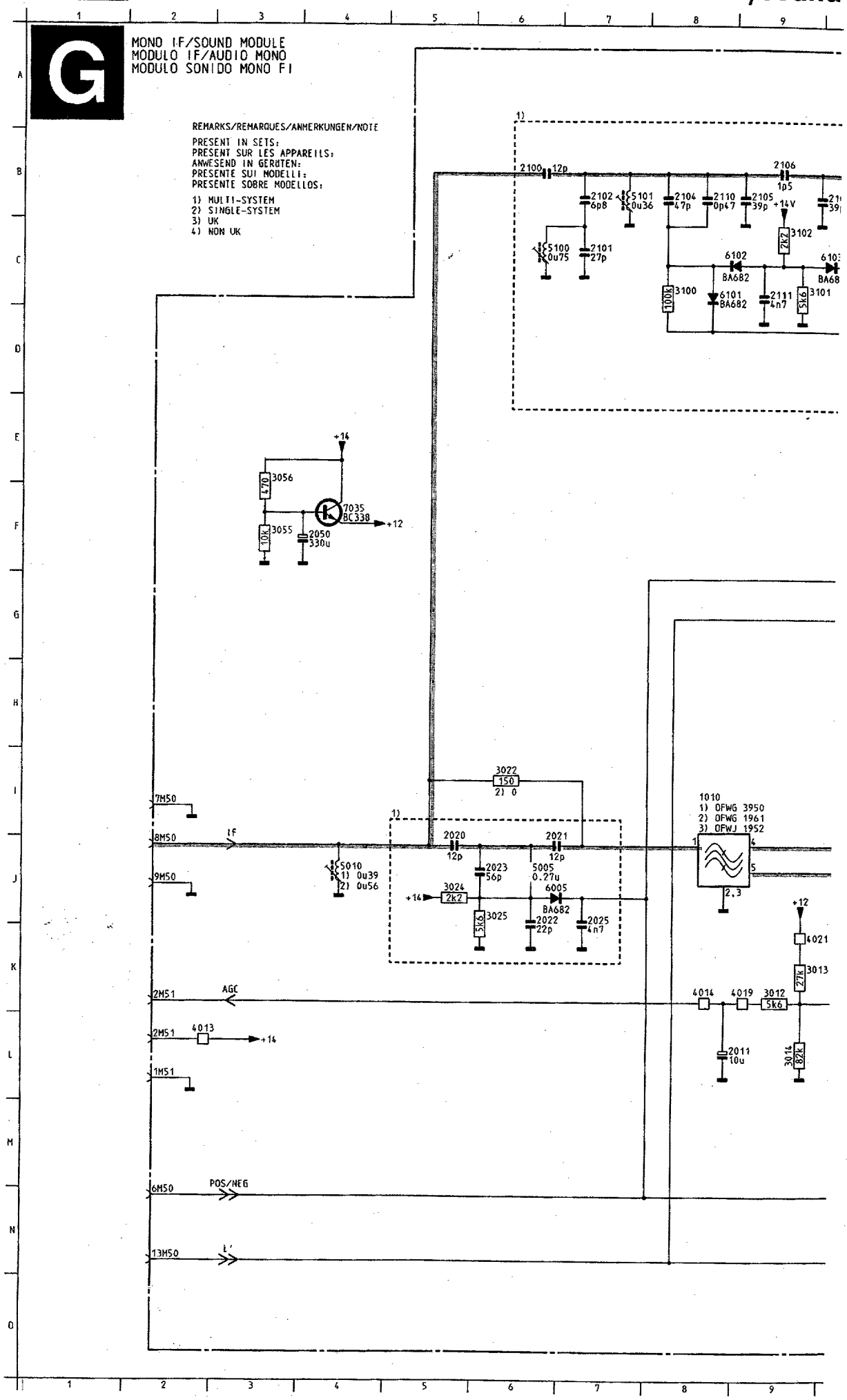
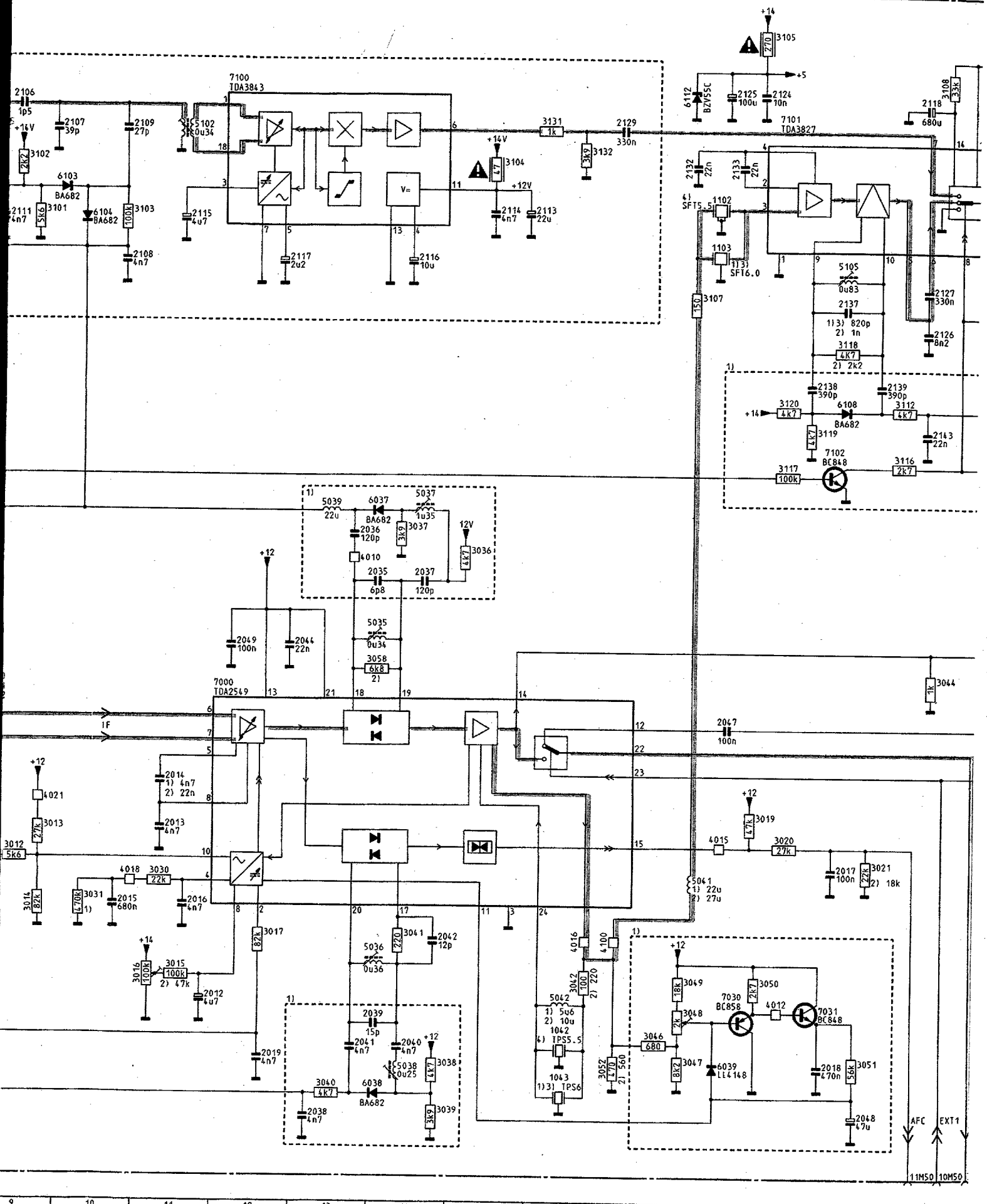
Mono IF/sound

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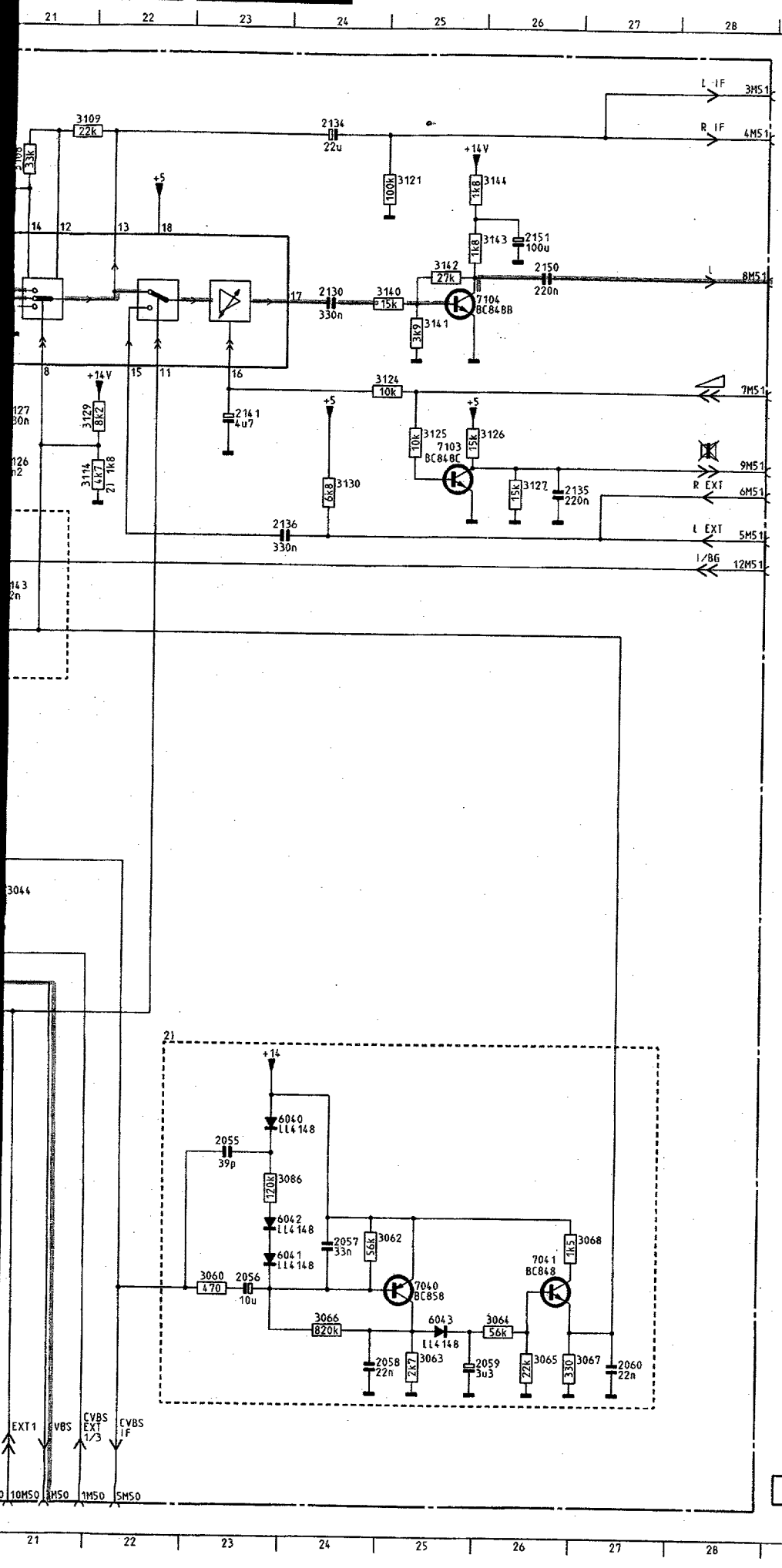

CHASSIS GR2.1

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2012	M11	3109	A21		
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2015	L10	3116	F20		
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2017	L19	3118	E20		
B 2018	N19	3119	F19		
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2022	K 6	3125	D25		
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C 2036	G13	3130	E24		
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2102	B 7	5036	M14		
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G 2114	C15	6005	J 7		
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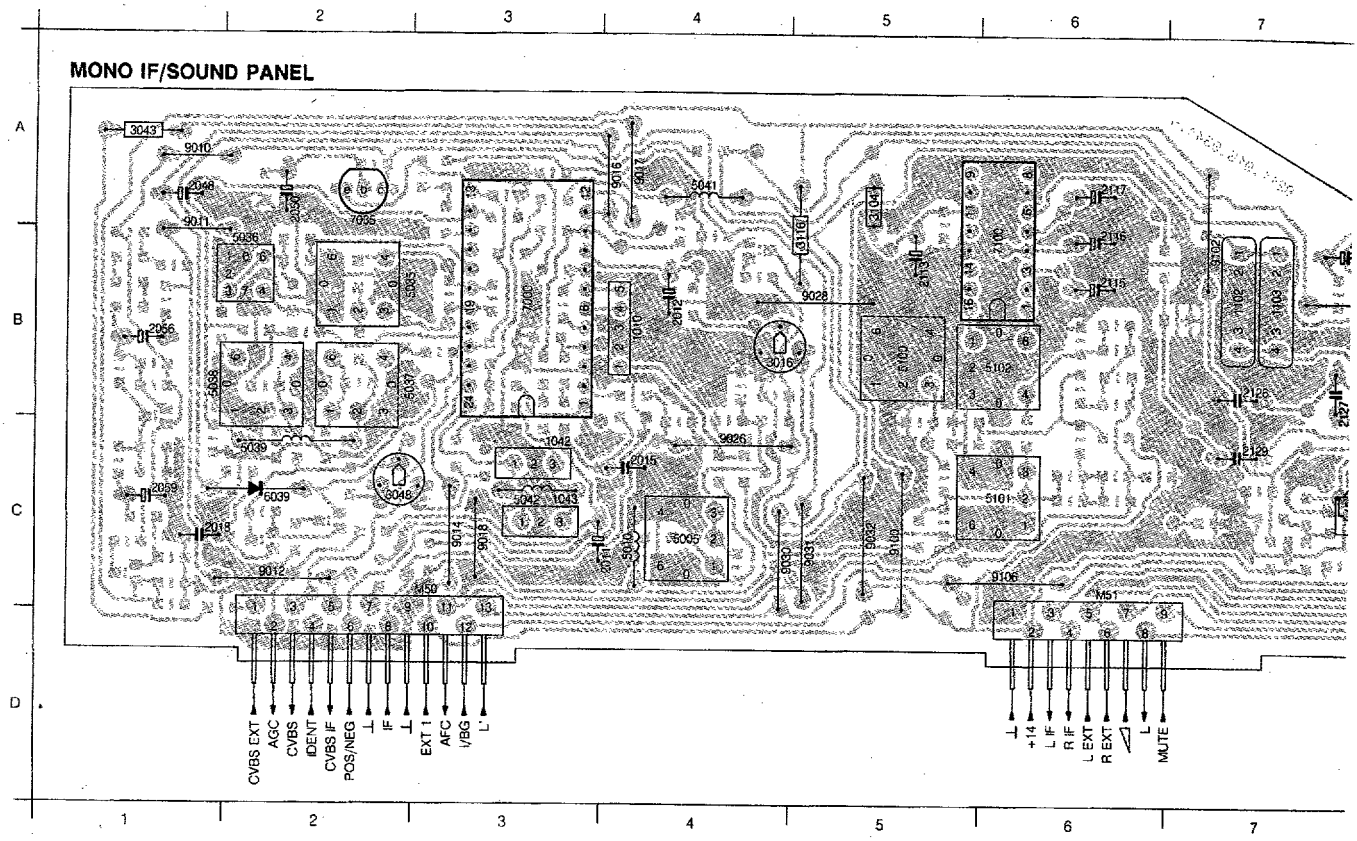
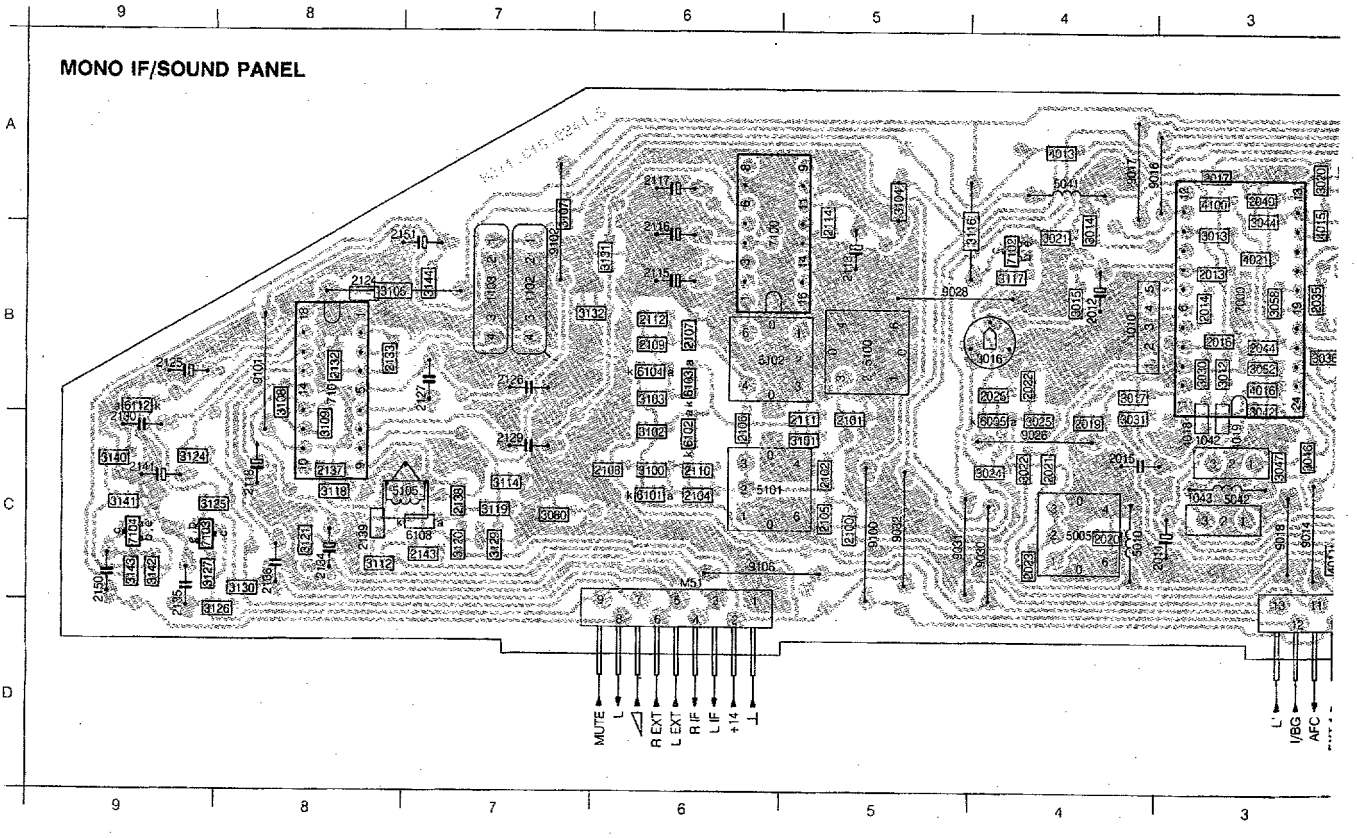
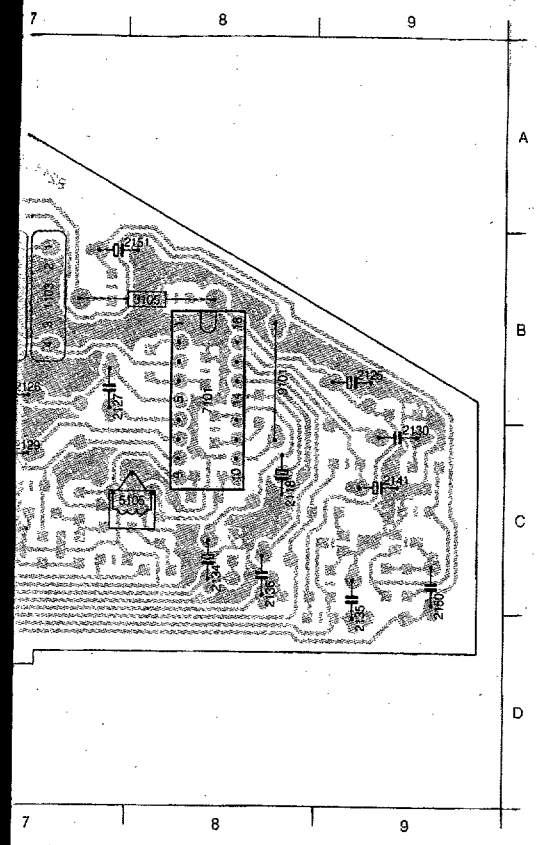
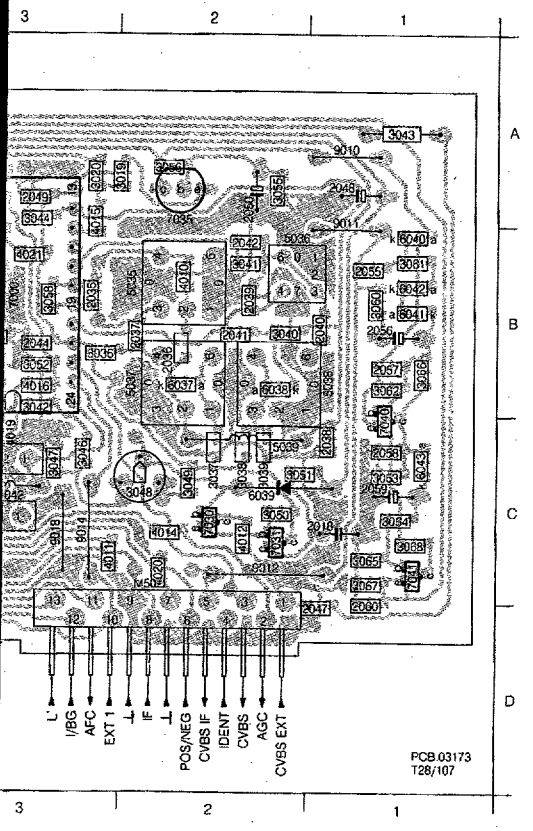
Mono IF/sound module / Mono ZF/Tonmodul /





Module FI/son mono





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1102	B7	3117	B4
1103	B7	3118	C8
2011	C4	3119	C7
2012	B4	3120	C7
2013	B3	3121	C8
2014	B3	3124	C9
2015	C4	3125	C8
2016	B3	3126	D8
2017	A3	3127	C9
2018	C1	3129	C7
2019	C4	3130	C8
2020	C4	3131	B7
2021	C4	3132	B6
2022	B4	3140	C9
2023	C4	3141	C9
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2044	B3	4016	B3
2047	D1	4018	C3
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2049	A3	4020	C2
2050	A2	4021	B3
2055	B1	4100	A3
2056	B1	5005	C4
2057	B1	5010	C4
2058	C1	5035	B3
2059	C1	5036	B2
2060	D1	5037	B3
2100	C5	5038	B1
2101	C5	5039	C2
2102	C5	5041	A4
2104	C6	5042	C3
2105	C5	5100	B5
2106	C6	5101	C6
2107	B6	5102	B6
2108	C6	5105	C7
2109	B6	6005	C4
2110	C6	6037	B2
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2143	C7	9010	A1
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3013	B3	9016	A4
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3015	B4	9018	C3
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3022	C4	9100	C5
3024	C4	9101	B8
3025	C4	9102	B7
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3037	C2		
3038	C2		
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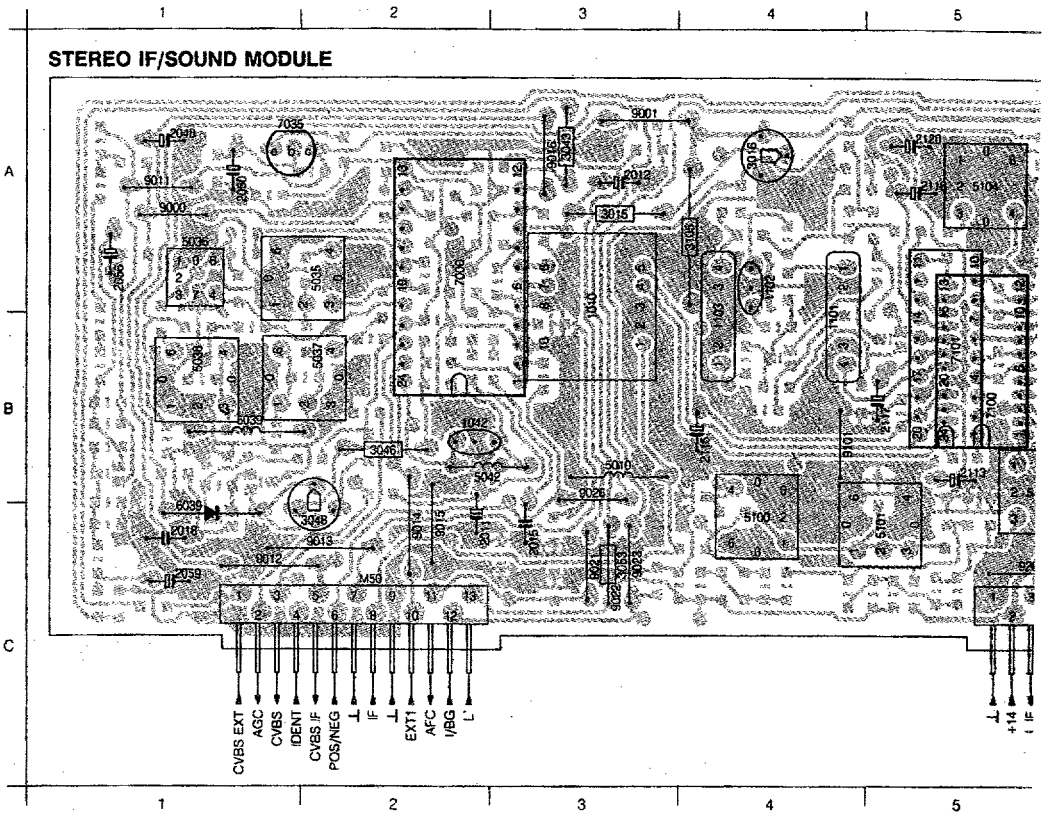
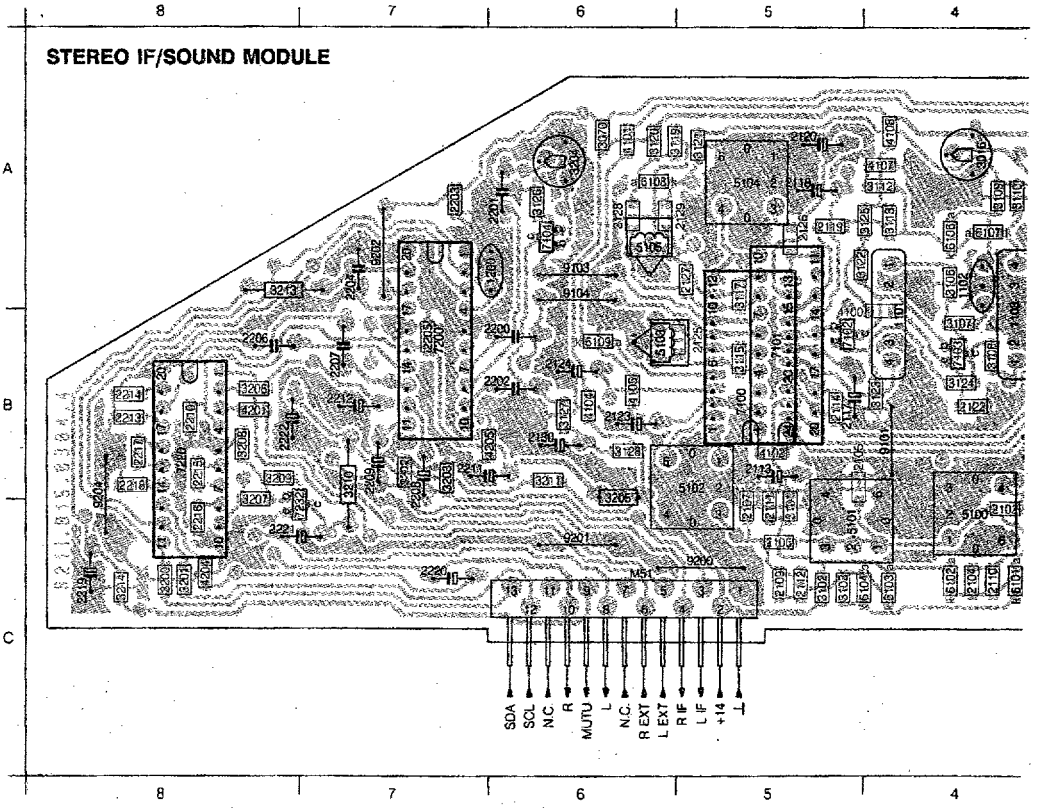
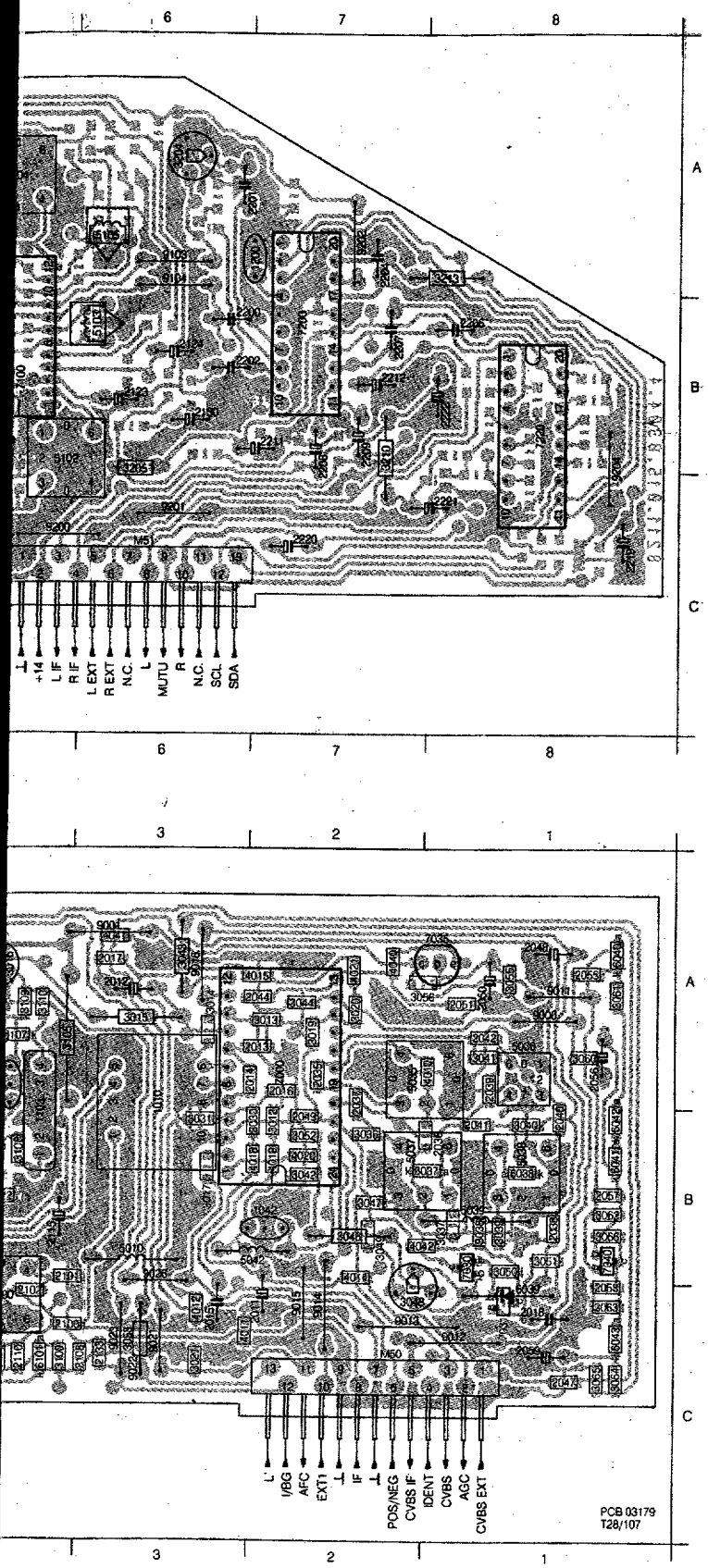
Stereo IF/sound module / Stereo ZF/Tonmodul /





Module FI/son stéréo



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1102	A4	3103	C5
1103	B4	3105	A4
1200	A7	3106	A4
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2012	A3	3108	B4
2013	A2	3109	A4
2014	A3	3110	A4
2015	C3	3112	A4
2016	A2	3113	A4
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2037	B2	3121	A5
2038	B1	3122	A5
2039	A1	3123	B4
2040	B1	3124	B4
2041	B1	3125	A5
2042	A1	3126	A6
2044	A2	3127	B6
2047	C1	3128	B6
2048	A1	3200	C8
2049	B2	3201	C8
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2059	C1	3208	B8
2100	C3	3209	B8
2101	B3	3210	B7
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2106	C5	4010	A2
2107	C5	4011	C3
2108	C4	4012	C3
2109	C5	4014	B2
2110	C4	4015	A2
2111	C5	4018	B3
2112	C5	4019	B2
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2115	B4	4040	A2
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3017	B3	7031	C1
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3042	B2	9001	A3
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3044	A2	9012	C1
3046	B2	9013	C2
3047	B2	9014	C2
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3060	A1	9104	A6
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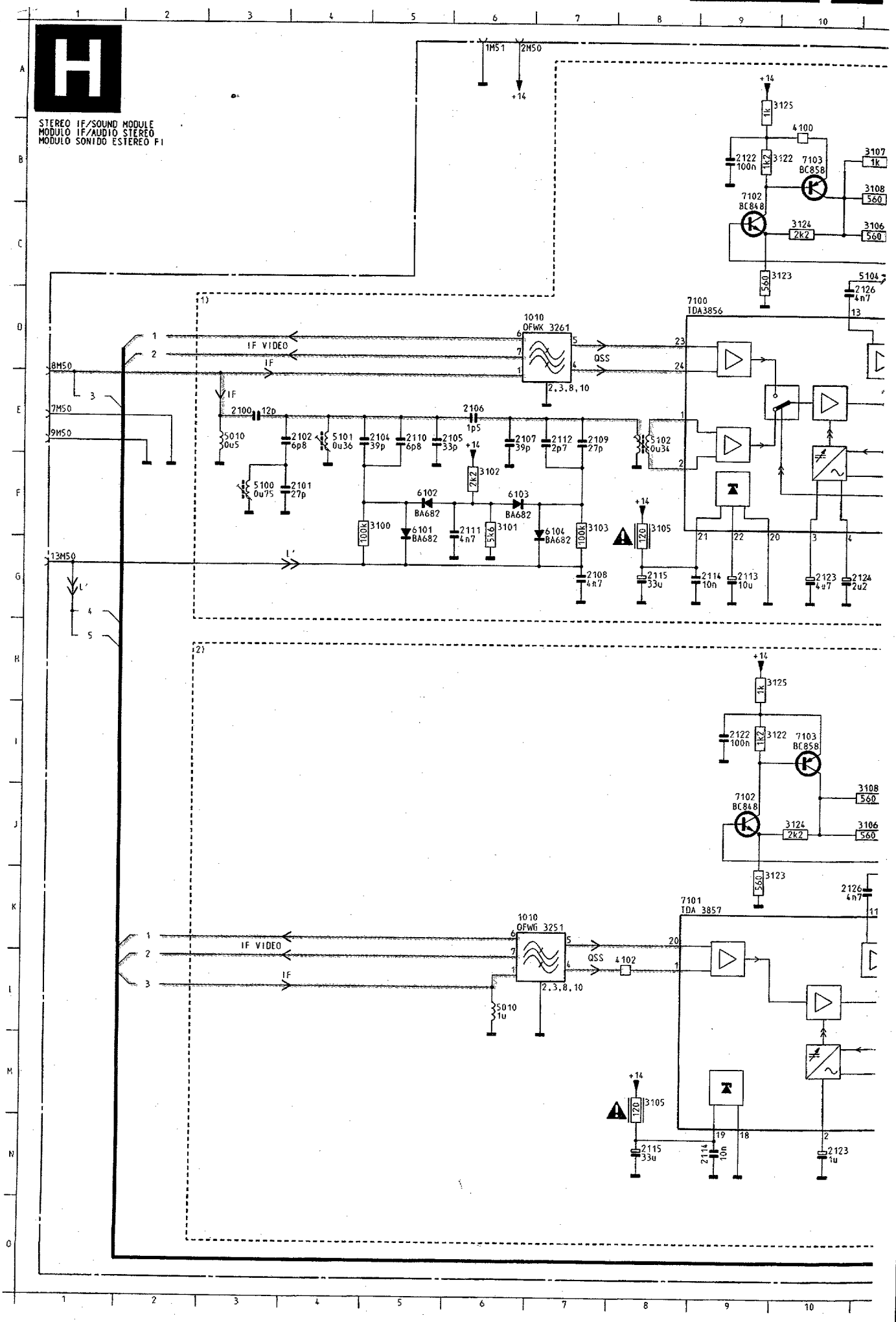
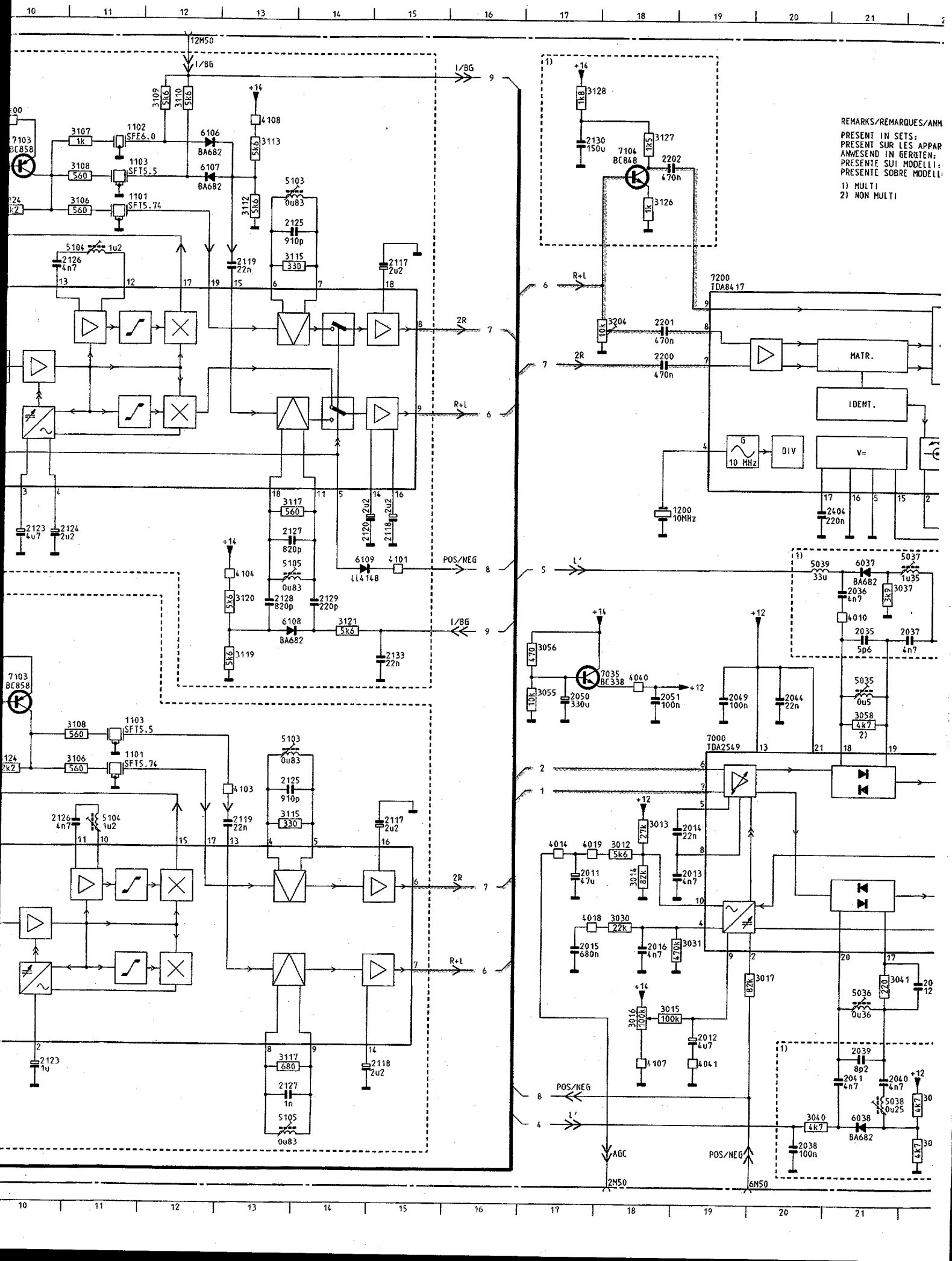
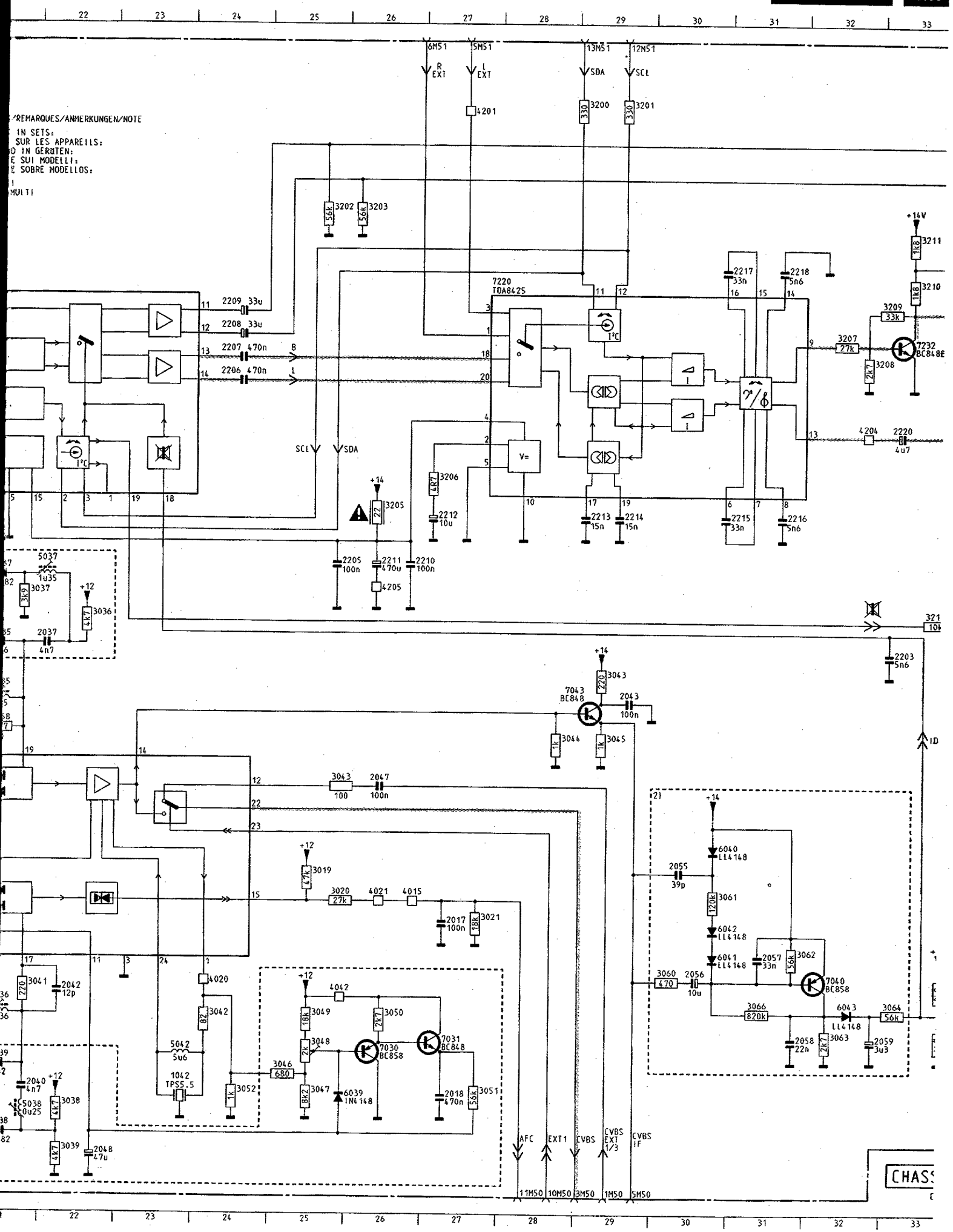
Stereo IF/sound module / Stereo ZF/Tonmodul /



Module FI/son stéréo

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SUR LES APPAREILS:
D IN GERÄTEN:
E SUI MODELLI:
E SOBRE MODELLOS:
MULTI
6MS1
5MS1
13MS1
12MS1
R EXT
L EXT
SDA
SCL
4201
3200
3201
3202
3203
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2206 470n
I²C
V=
3205
3206
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3041 220
2042 12p
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5042 5u6
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7031 BC848
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3047 8k2
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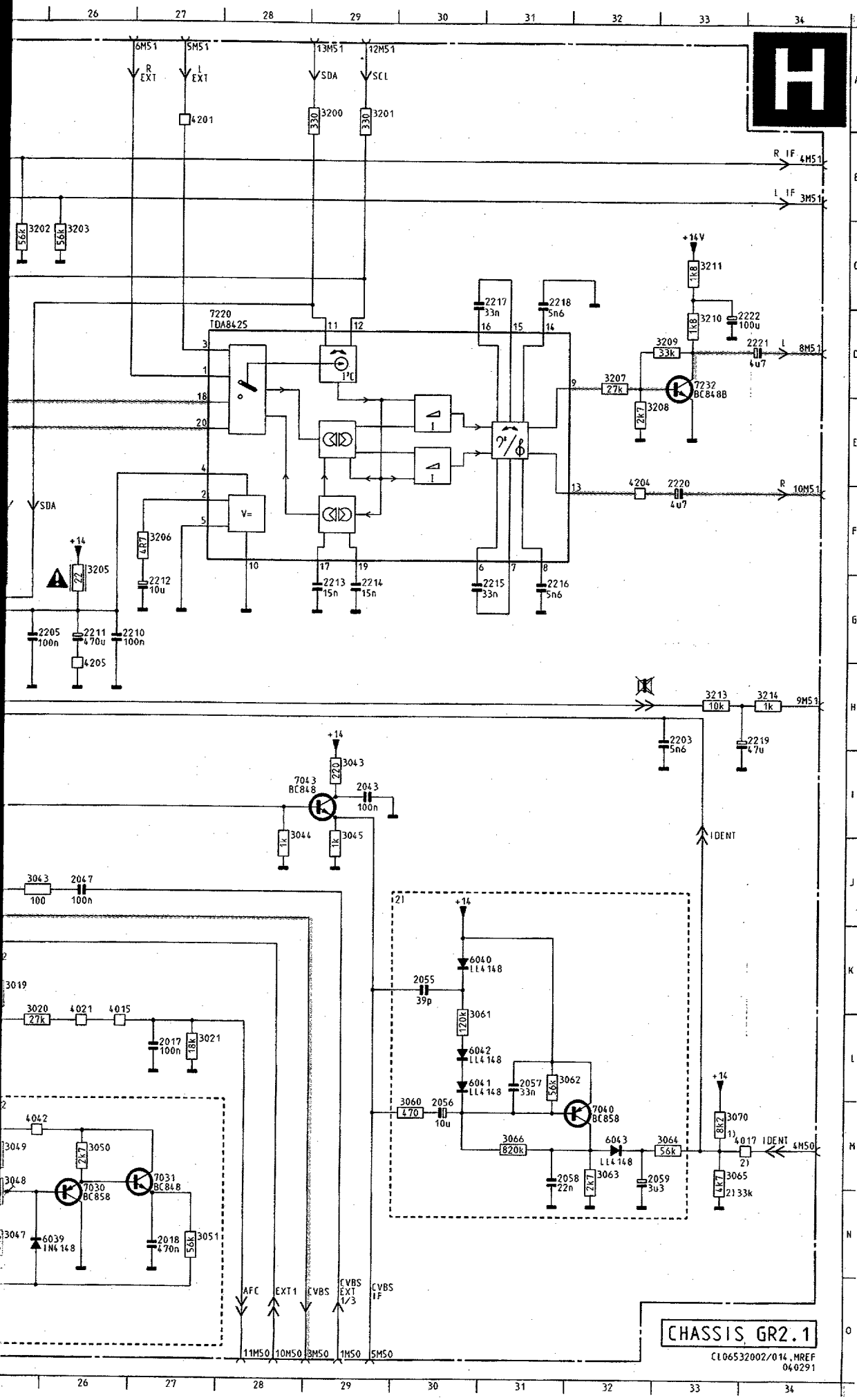

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	2011	K17	3050	M26	7031	N27
	2012	N19	3051	N27	7035	I18
	2013	K19	3052	N24	7040	M32
B	2014	K19	3055	I17	7043	I29
	2015	L17	3056	H17	7100	D 8
	2016	L18	3058	I21	7101	K 8
	2017	L27	3060	M30	7102	B 9
	2018	N27	3061	L30	7102	J 9
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	2044	I20	3103	F 7		
	2047	J26	3105	F 8		
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	2050	I17	3106	J11		
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	2108	G 7	3121	H14		
	2109	E 7	3122	B 9		
	2110	E 5	3122	I 9		
	2111	F 6	3123	C 9		
	2112	E 7	3123	K 9		
	2113	G 9	3124	C10		
G	2114	G 9	3124	J10		
	2114	N 9	3125	A 9		
	2115	G 8	3125	H 9		
	2115	N 8	3126	C18		
	2117	D15	3127	B18		
	2117	K15	3128	A17		
	2118	G15	3200	A29		
H	2118	N15	3201	A29		
	2119	D13	3202	C25		
	2119	K13	3203	C26		
	2120	G15	3204	D18		
	2122	B 9	3205	F26		
	2122	I 9	3206	F27		
	2123	G10	3207	D32		
	2123	N10	3208	E32		
I	2124	G10	3209	D33		
	2125	C14	3210	D33		
	2125	J14	3211	C33		
	2126	D10	3213	H33		
	2126	K11	3214	H34		
	2127	G14	4010	H21		
	2127	N14	4014	K17		
J	2128	H13	4015	L26		
	2129	H14	4017	M34		
	2130	B17	4018	L18		
	2133	I15	4019	K18		
	2200	E18	4020	M24		
	2201	D18	4021	L26		
	2202	B18	4040	I18		
	2203	H33	4041	N19		
K	2205	G25	4042	M25		
	2206	E24	4100	B10		
	2207	E24	4101	G15		
	2208	D24	4102	I 8		
	2209	D24	4103	J13		
	2210	G26	4104	H13		
	2211	G26	4107	N18		
L	2212	G27	4108	B13		
	2213	G29	4201	A27		
	2214	G29	4204	F32		
	2215	G31	4205	H26		
	2216	G31	5010	E 3		
	2217	D31	5010	L 6		
	2218	D31	5035	I21		
	2219	H34	5036	M21		
M	2220	F33	5037	G22		
	2221	D34	5038	N21		
	2222	D33	5039	G20		
	2404	G21	5042	N23		
	3012	K18	5100	F 3		
	3013	K18	5101	E 4		
	3014	K18	5102	E 8		
	3015	M19	5103	B14		
N	3016	M18	5103	J14		
	3017	M20	5104	K11		
	3019	K25	5104	C11		
	3020	L25	5105	G14		
	3021	L27	5105	O14		
	3030	L18	6037	G21		
	3031	L19	6038	O21		
	3036	M22	6039	N26		
O	3037	H21	6040	K30		
	3038	N22	6041	L30		
	3039	O22	6042	L30		
	3040	O20	6043	M32		
	3041	M21	6101	F 5		

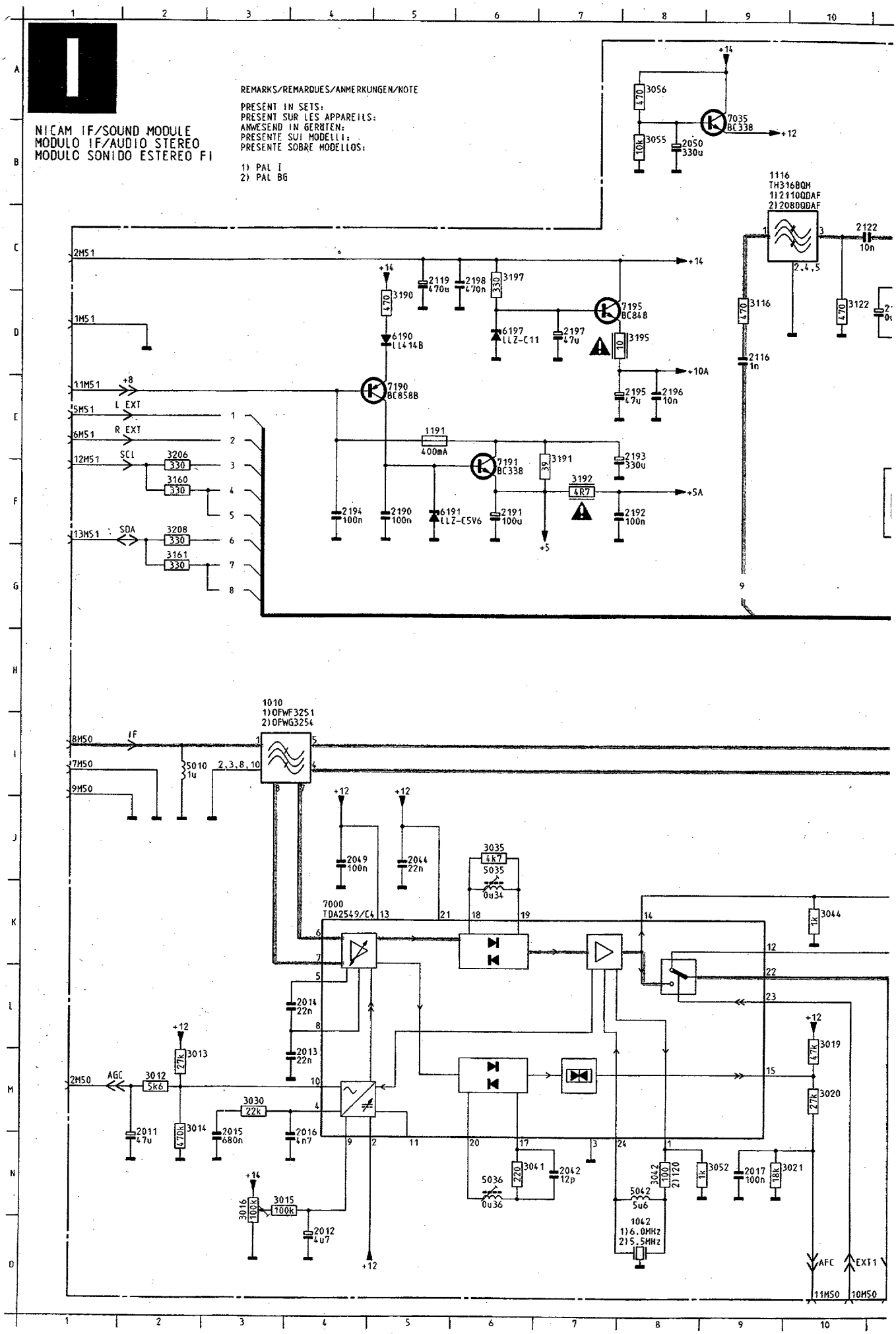
I

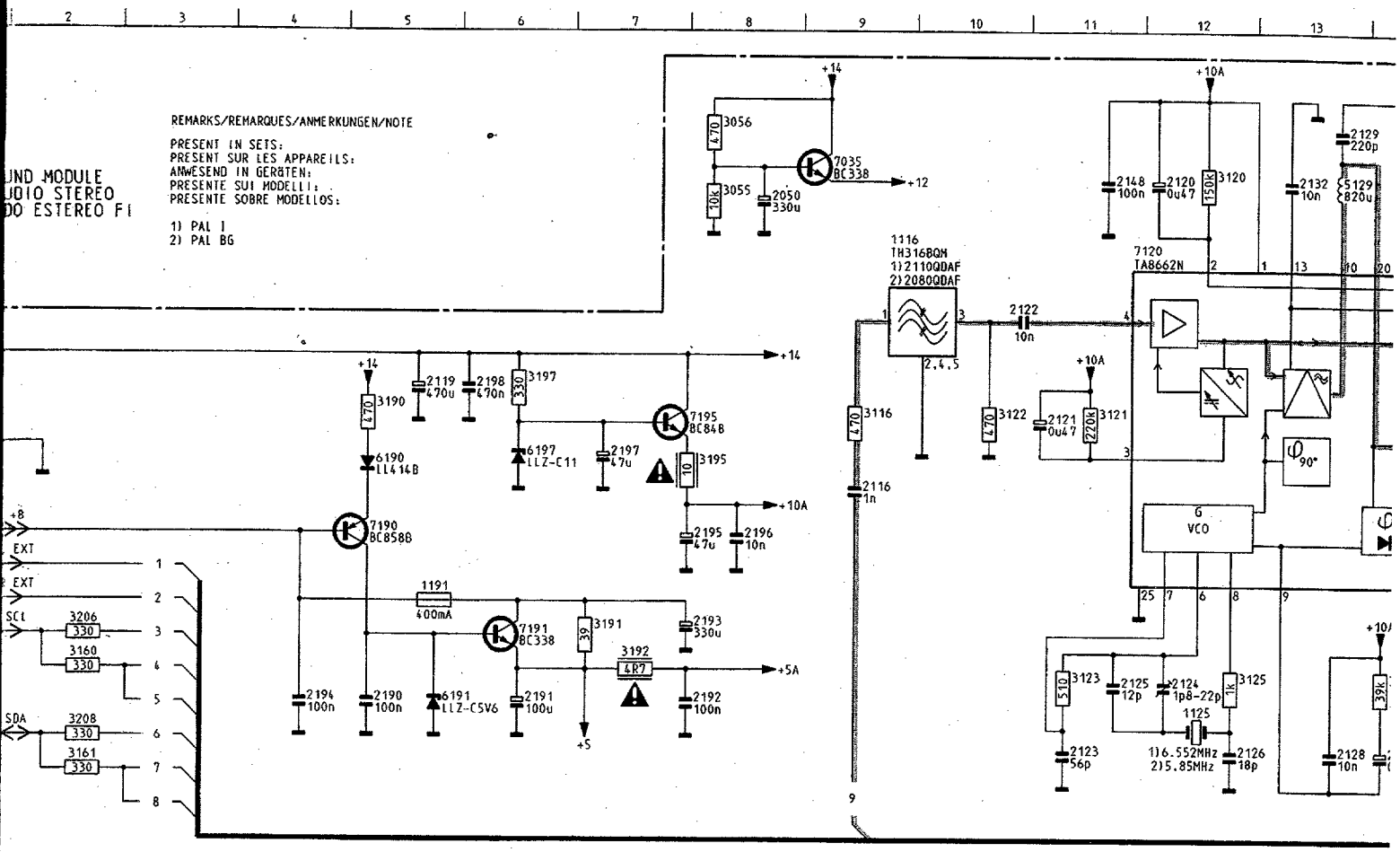
NICAM IF/SOUND MODULE
MODULO IF/AUDIO STEREO
MODULO SONIDO ESTEREO FI

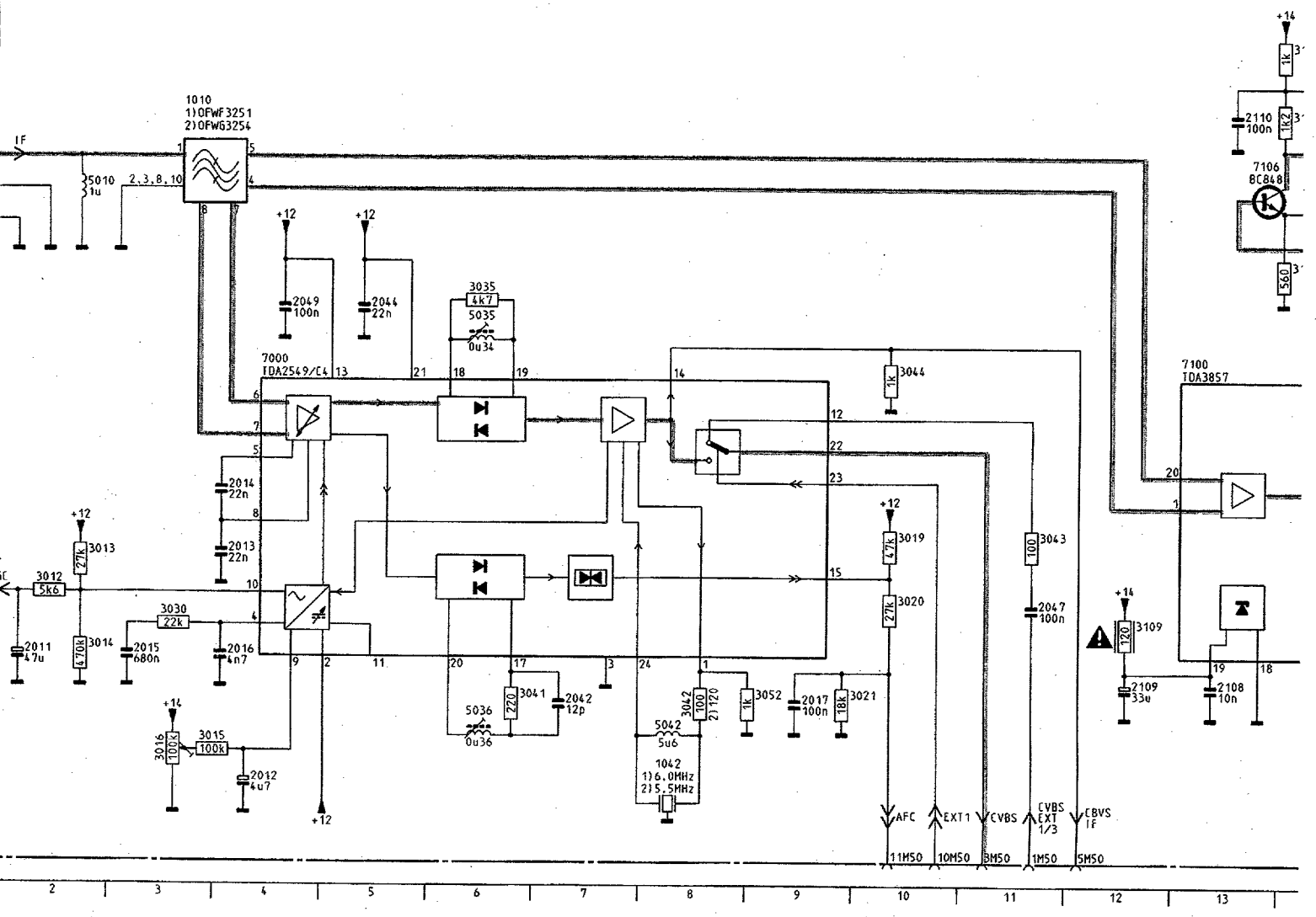
REMARKS/REMARQUES/ANMERKUNGEN/NOTE

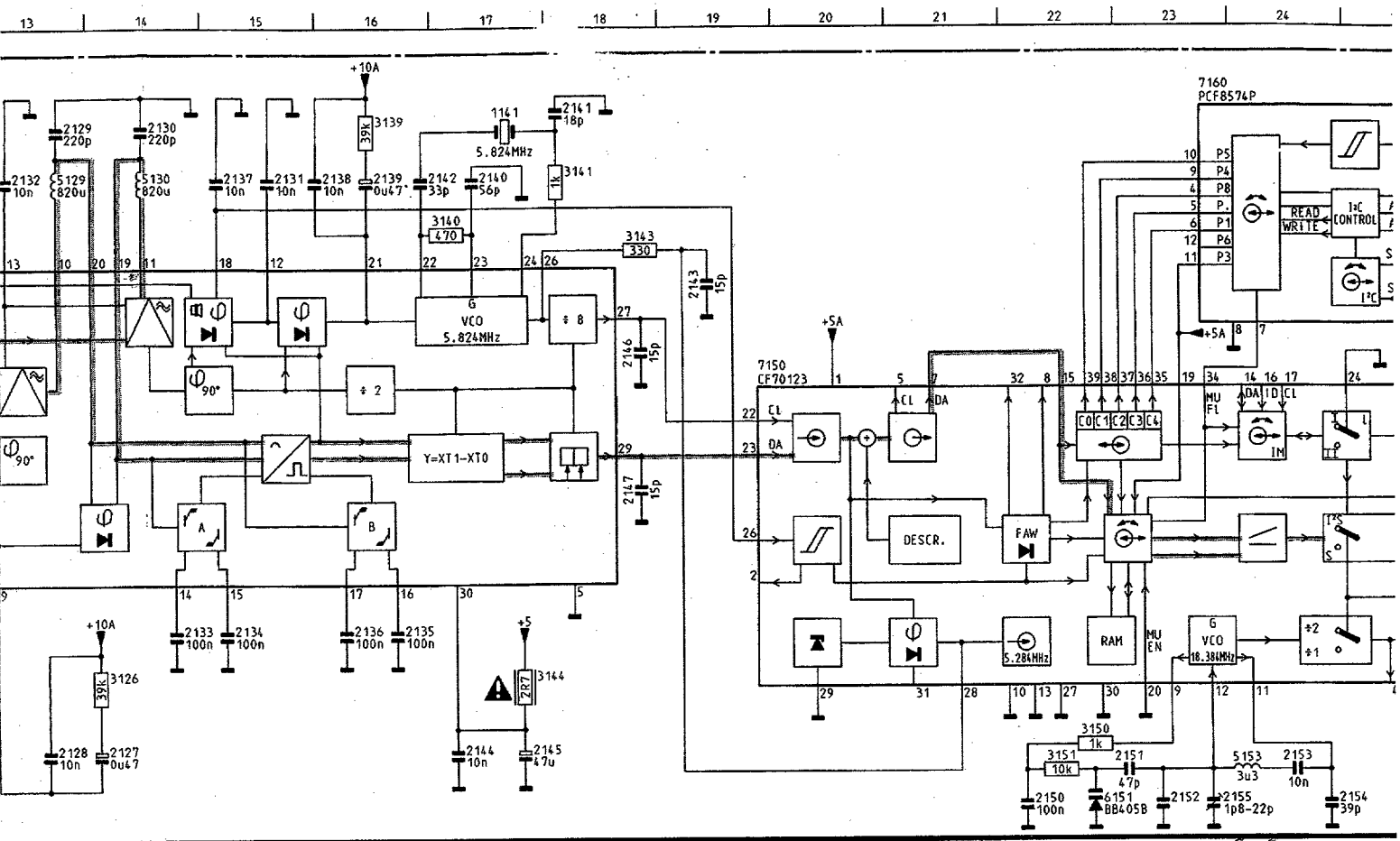
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

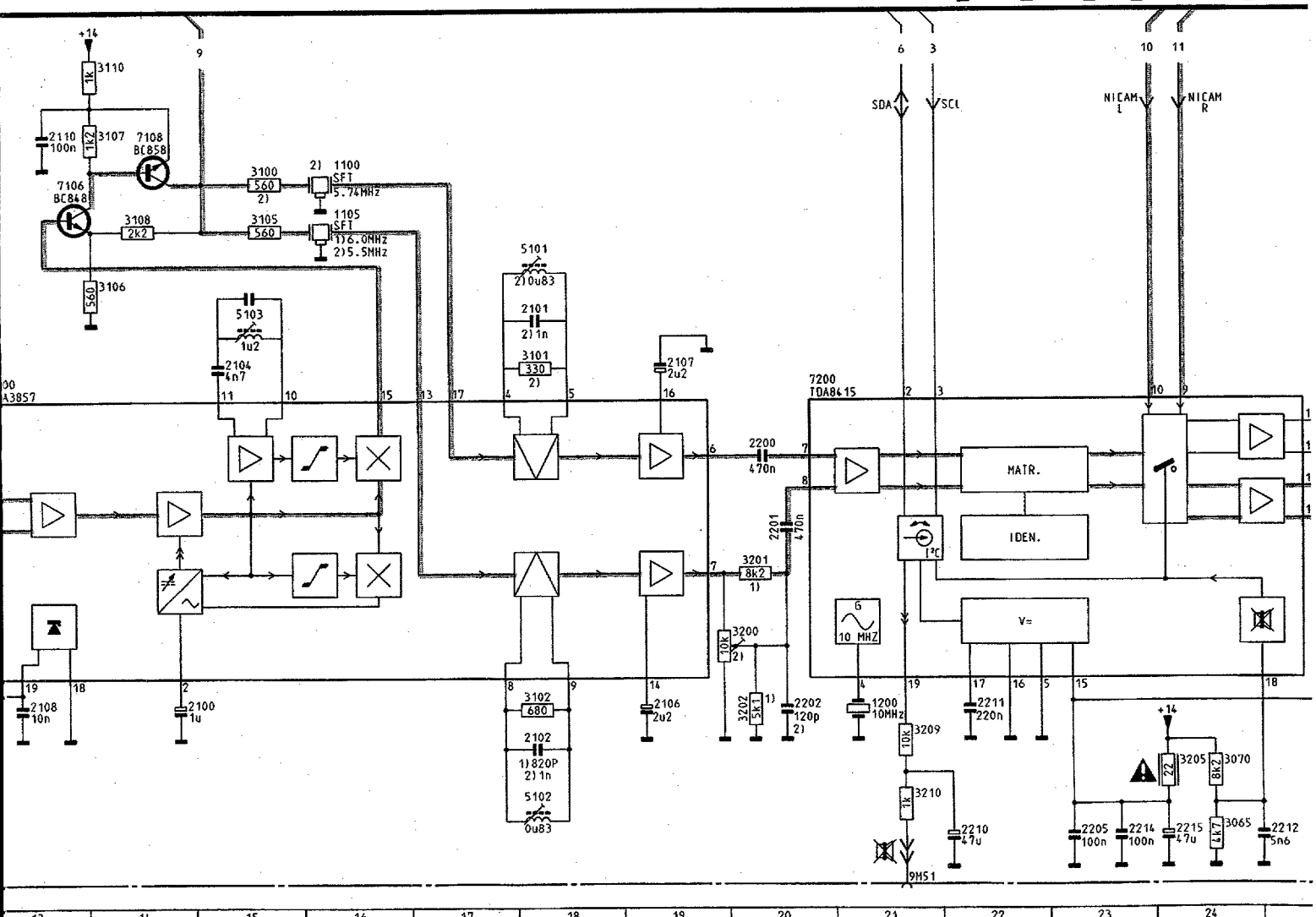
1) PAL I
2) PAL BG



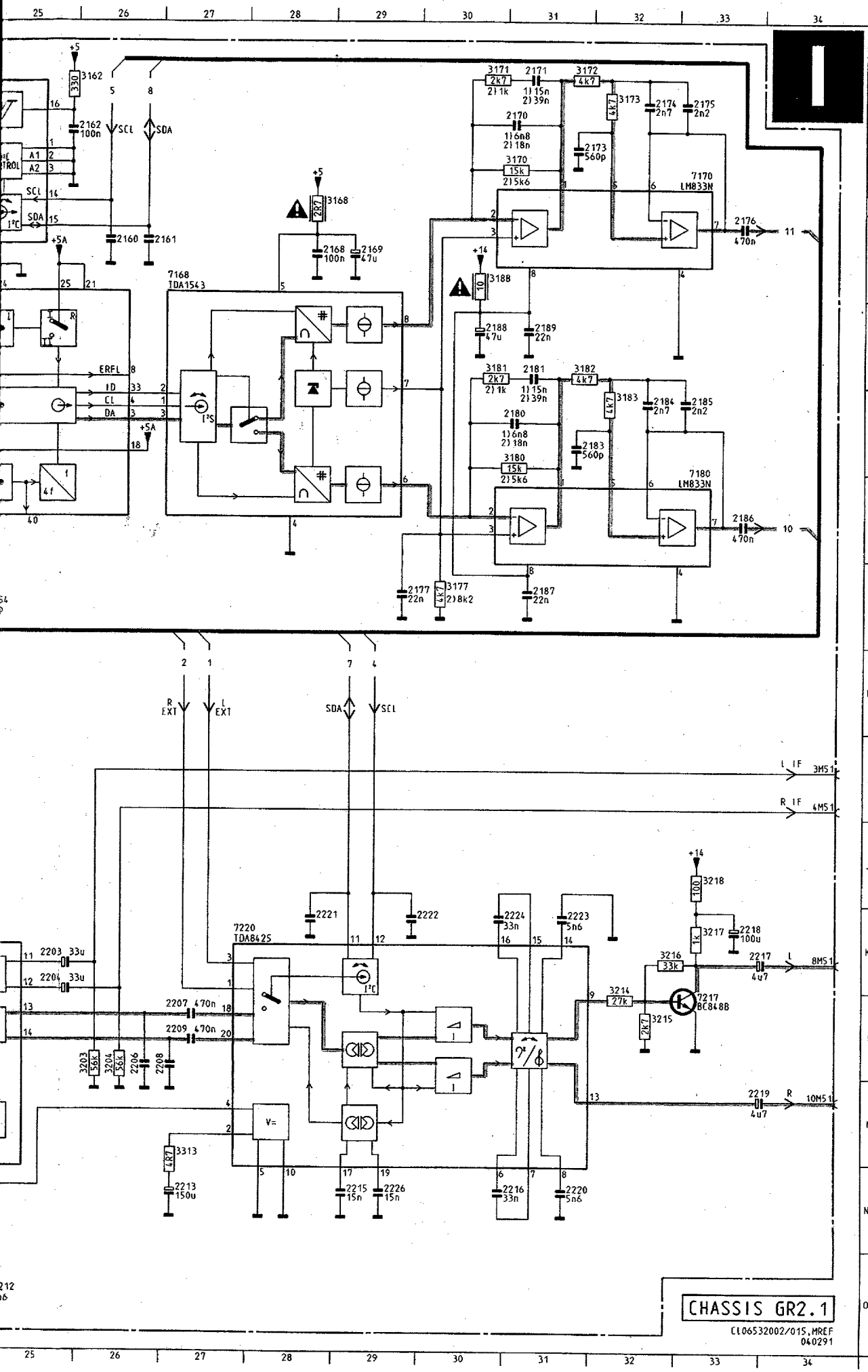

REMARKS/REMARQUES/ANMERKUNGEN/NOTE
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
1) PAL I
2) PAL BG
UND MODULE
UDIO STEREO
DO ESTEREO FI
+14
+10A
+12
+10
+8
+5A
+5
EXT
SCL
SDA
7120 TA8662N
1116 TH316BQN 1)2110QDAF 2)2080QDAF
7190 BC858B
7191 BC338
7195 BC848
7035 BC338
6190 LL4148
6191 LLZ-C5V6
6197 LLZ-C11
1191 400mA
VCO
1125 1)6.552MHz 2)5.85MHz


1010 1)OFWF3251 2)OFWG3254
IF
7000 TDA2549/C4
7100 TDA3857
7106 BC848
1042 1)6.0MHz 2)5.5MHz
+12
+14
AFC
EXT1
CVBS
CVBS EXT 1/3
CVBS IF
11M50
10M50
8M50
1M50
5M50


+10A
2129 220p
2130 220p
2132 10n
5129 820u
5130 820u
2137 10n
2131 10n
2138 10n
2139 0u47
3139 39K
1141 5.824MHz
2141 18p
2142 33p
2140 56p
3141 1k
3140 470
3143 330
2143 15p
G VCO 5.824MHz
÷ 8
2146 15p
÷ 2
Y=XT1-XT0
2147 15p
2133 100n
2134 100n
2136 100n
2135 100n
+5
3144 2R7
2144 10n
2145 47u
3126 39K
2128 10n
2127 0u47
7160 PCF8574P
PS
P4
P8
P.
P1
P6
P3
READ WRITE
I²C CONTROL
I²C
+5A
7150 CF70123
CL
DA
DESCR.
FAW
RAM
MU EN
G VCO 10.384MHz
÷2
÷1
5.284MHz
3150 1k
3151 10k
2151 47p
5153 3u3
2153 10n
2150 100n
6151 BB405B
2152
2155 1p8-22p
2154 39p


+14
3110 1k
2110 100n
3107 1k2
7108 BC858
7106 BC848
3108 2k2
3106 560
3100 560 2)
3105 560
2) 1100 SFT 5.74MHz
1105 SFT 116.0MHz 2)5.5MHz
5103 1u2
2104 4n7
5101 2)10u83
2101 2)1n
3101 330 2)
2107 2u2
A3857
7200 TDA8415
SDA
SCL
NICAM I
NICAM R
MATR.
IDEN.
V=
I²C
2200 470n
2201 470n
3201 8k2 1)
3200 10k 2)
3202 5k1 1)
2202 120p 2)
2106 2u2
3102 680
2102 1) 820P 2) 1n
5102 0u83
2100 1u
2108 10n
G 10 MHZ
1200 10MHz
3209 10k
3210 1k
2210 47u
9M51
2211 220n
+14
3205 22
3070 8k2
2205 100n
2214 100n
2215 47u
3065 4k7
2212 5n6

Module FI/son NICAM



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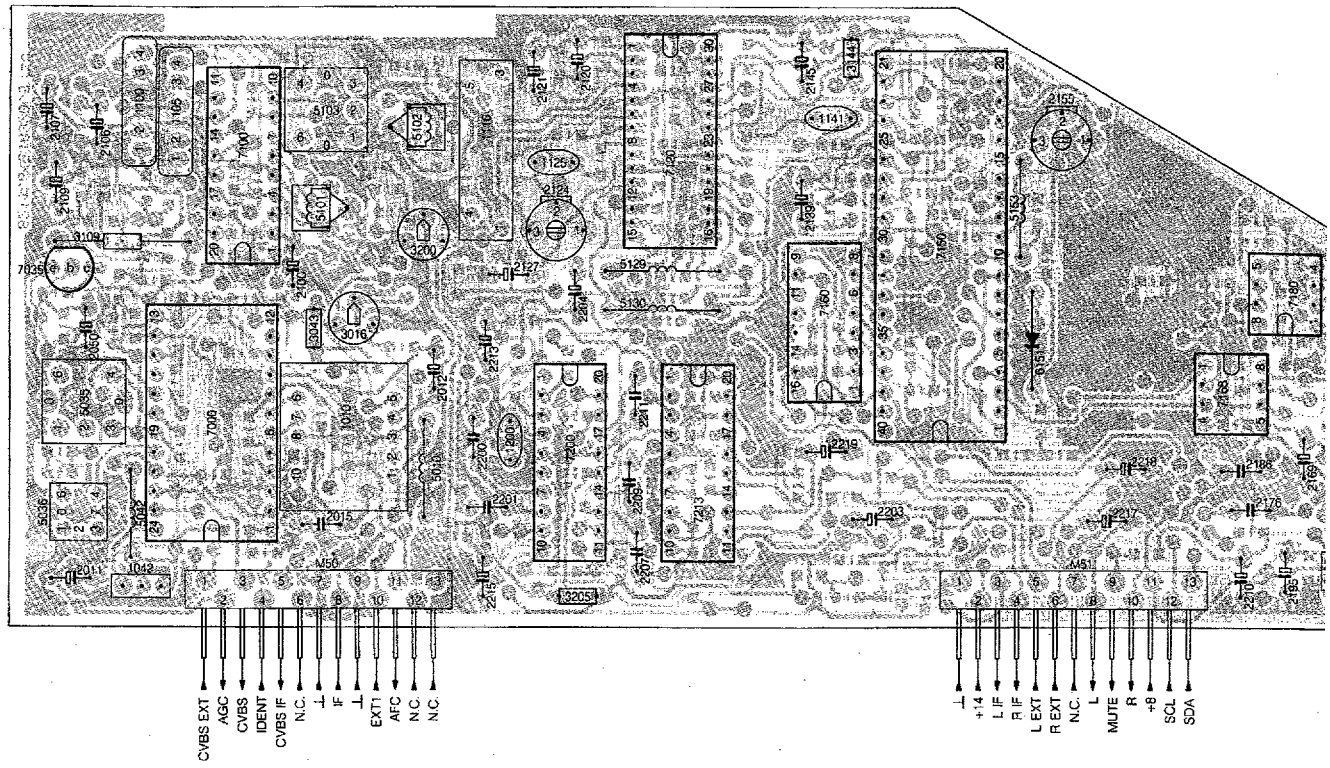
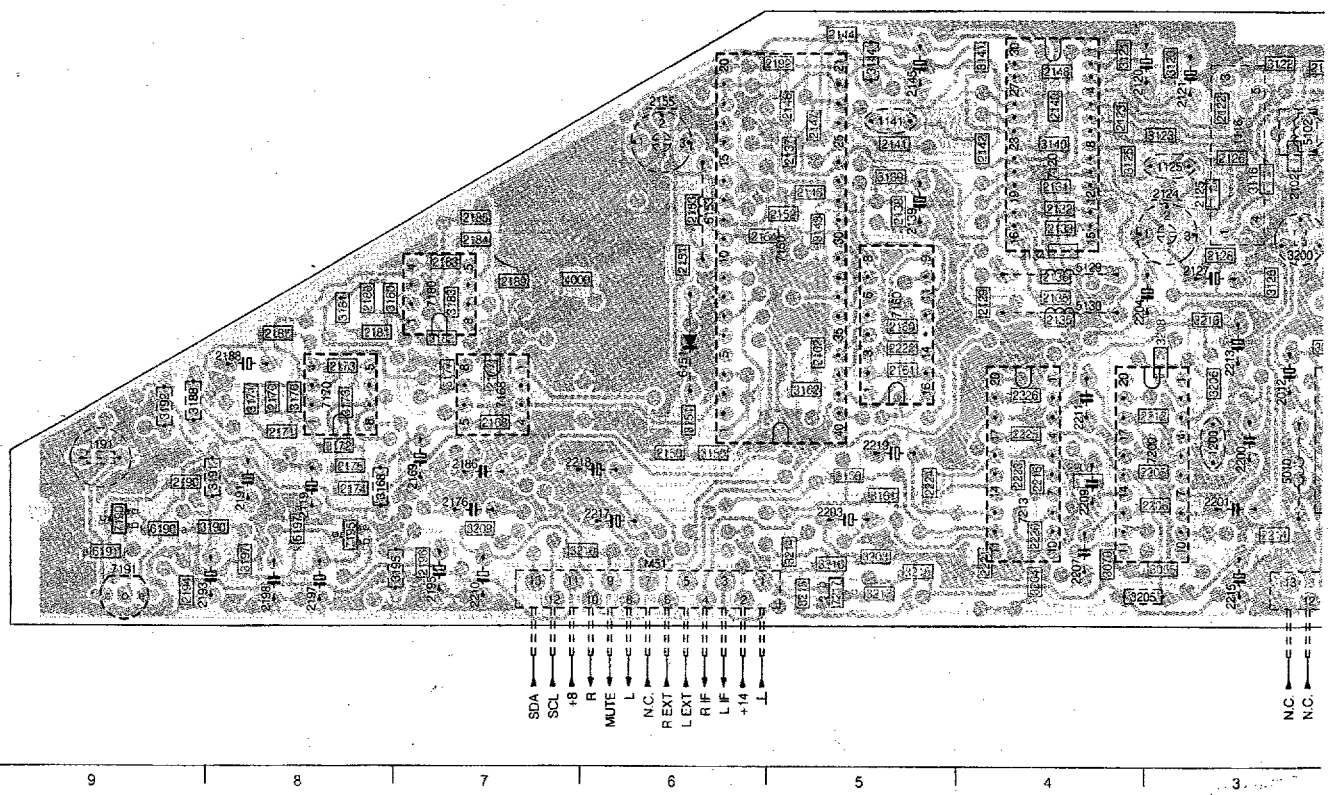
	1042	O 8	2219	M34
	1100	I 16	2220	N31
	1105	I 16	2221	K28
A	1116	B 9	2222	K30
	1125	F12	2223	K31
	1141	A17	2224	K31
	1191	E 5	2226	N29
	1200	N21	3012	M 2
	2011	N 2	3013	M 2
	2012	O 4	3014	M 2
	2013	M 4	3015	N 4
B	2014	L 4	3016	N 3
	2015	N 3	3019	L10
	2016	N 4	3020	M10
	2017	N 9	3021	N 1
	2042	N 7	3030	M 3
	2044	J 5	3035	J 6
	2047	M11	3041	N 6
	2049	J 4	3042	N 8
C	2050	B 8	3043	L11
	2100	N14	3044	K10
	2101	J18	3052	N 9
	2102	N18	3055	B 8
	2104	K15	3056	A 8
	2106	N19	3065	O24
	2107	K19	3070	N24
D	2108	N13	3100	I15
	2109	N12	3101	K18
	2110	I13	3102	N18
	2116	D 9	3105	I15
	2119	C 5	3106	J14
	2120	B12	3107	I14
	2121	D11	3108	I14
	2122	C10	3109	M12
E	2123	G11	3110	H14
	2124	F12	3116	D 9
	2125	F11	3120	A12
	2126	G12	3121	D11
	2127	G14	3122	D10
	2128	G13	3123	F11
	2129	A13	3125	F12
	2130	A14	3126	F14
F	2131	B15	3139	A16
	2132	B13	3140	B17
	2133	F14	3141	A18
	2134	F15	3143	B18
	2135	F16	3144	F17
	2136	F16	3150	F22
	2137	B15	3151	G22
G	2138	B16	3160	F 2
	2139	B16	3161	G 2
	2140	B17	3162	A26
	2141	A18	3168	B28
	2142	B17	3170	B31
	2143	C19	3171	A30
	2144	G17	3172	A31
H	2145	G17	3173	A32
	2146	C18	3177	G30
	2147	D18	3180	E31
	2148	B11	3181	D30
	2150	G22	3182	D31
	2151	G23	3183	E32
	2152	G23	3188	C30
	2153	G24	3190	D 5
I	2154	G24	3191	E 7
	2155	G23	3192	F 7
	2160	C26	3195	D 8
	2161	C26	3197	C 6
	2162	B26	3200	M20
	2168	C28	3201	M20
	2169	C29	3202	N20
J	2170	A31	3203	L26
	2171	A31	3204	L26
	2173	B31	3205	N24
	2174	A32	3206	F 2
	2175	A33	3208	F 2
	2176	C33	3209	N21
	2177	G29	3210	O21
	2180	E31	3214	L32
K	2181	D31	3215	L32
	2183	E31	3216	K32
	2184	E32	3217	K33
	2185	E33	3218	J33
	2186	F33	3313	M27
	2187	G31	5010	I 2
	2188	D30	5035	J 6
	2189	D31	5036	N 6
L	2190	F 5	5042	N 8
	2191	F 6	5101	J18
	2192	F 8	5102	O18
	2193	F 8	5103	J15
	2194	F 4	5129	B13
	2195	E 8	5130	B14
	2196	E 8	5153	G24
M	2197	D 7	6151	G22
	2198	C 6	6190	D 5
	2200	K20	6191	F 5
	2201	L20	6197	D 6
	2202	N20	7000	K 4
	2203	K25	7035	A 9
	2204	K25	7100	K13
N	2205	O23	7106	I13
	2206	L26	7108	I14
	2207	L27	7120	B11
	2208	L27	7150	C19
	2209	L27	7160	A23
	2210	O22	7168	C27
	2211	N22	7170	B33
	2212	O25	7180	F33
	2213	N27	7190	E 5
O	2214	O23	7191	F 6
	2215	O24	7195	D 8
	2215	N29	7200	K20
	2216	N31	7217	L33
	2217	K34	7220	K27

NICAM IF/sound module / NICAM ZF/Tonmodul /

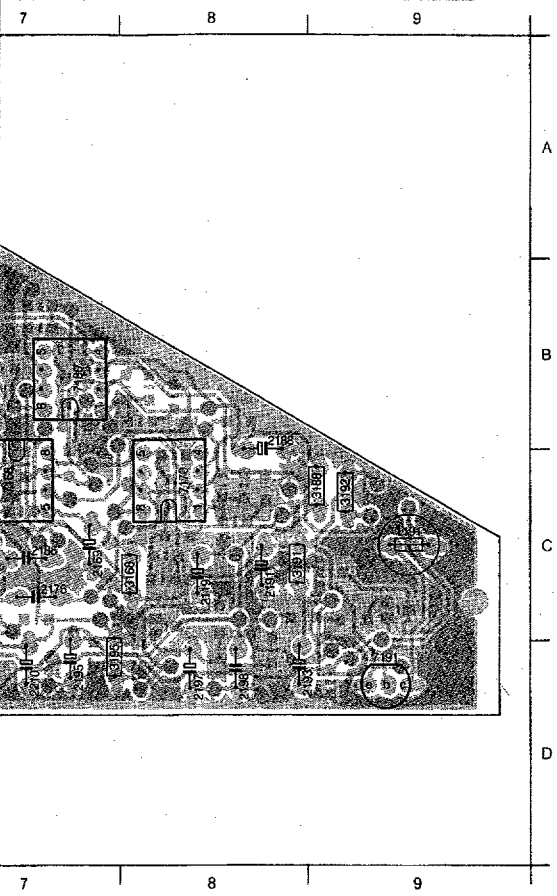
NICAM IF/SOUND MODULE

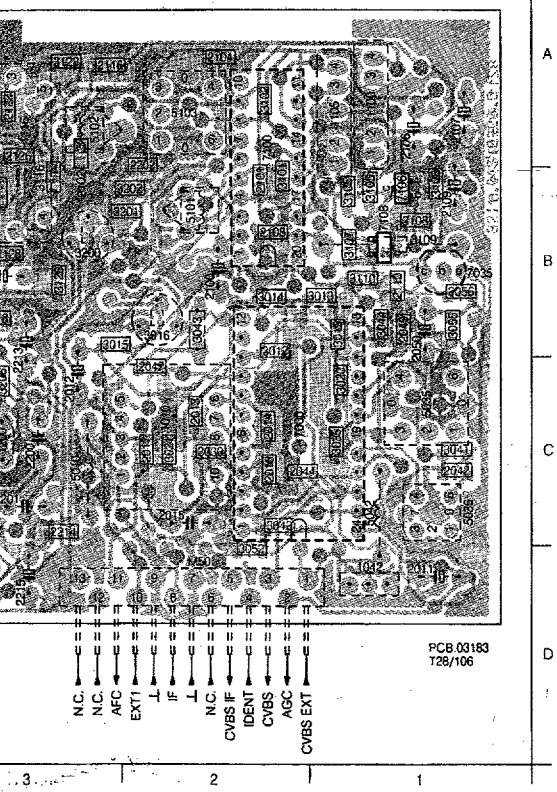


NICAM IF/SOUND MODULE



Module FI/son NICAM





PCB.03183
T26/106

M50	D2	3015	B2
M51	D6	3016	B2
1010	C2	3019	B1
1042	D1	3020	C1
1100	A1	3021	C2
1105	A1	3030	C2
1116	A3	3035	C1
1125	A3	3041	C1
1141	A5	3042	C2
1191	C8	3043	B2
1200	C3	3044	B1
2011	D1	3052	D2
2012	C3	3055	B1
2013	C2	3056	B1
2014	C2	3065	D3
2015	C2	3070	D4
2016	C2	3100	B1
2017	C2	3101	B2
2042	C1	3102	A2
2044	C1	3105	B1
2047	C2	3106	B1
2049	B1	3107	B1
2050	B1	3108	B1
2100	B2	3109	B1
2101	B2	3110	B1
2102	B3	3116	B3
2104	A2	3120	A3
2106	A1	3121	A4
2107	A1	3122	A3
2108	B2	3123	A3
2109	B1	3125	B4
2110	B1	3126	B3
2116	A2	3139	B5
2119	C8	3140	A4
2120	A4	3141	A4
2121	A3	3143	B5
2122	A3	3144	A5
2123	A4	3150	C6
2124	B3	3151	C6
2125	B3	3160	C5
2126	A3	3161	C5
2127	B3	3162	C5
2128	B3	3168	C8
2129	B4	3170	C8
2130	B4	3171	C8
2131	B4	3172	C8
2132	B4	3173	C8
2133	B4	3177	C7
2134	B4	3180	B8
2135	B4	3181	B8
2136	B4	3182	B7
2137	A5	3183	B7
2138	B5	3188	C9
2139	B5	3190	C8
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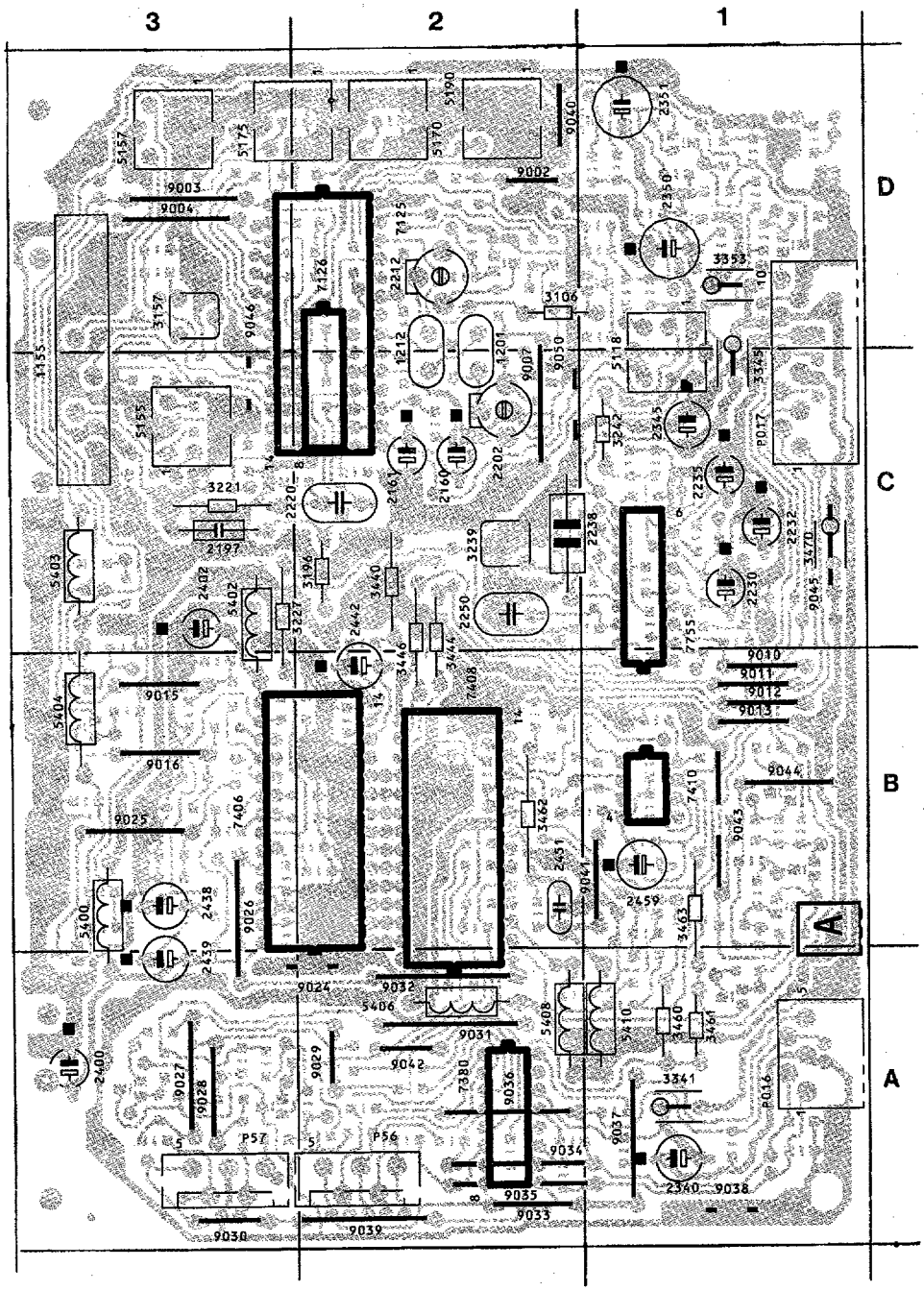
2143	B5	3197	D8
2144	A5	3200	B3
2145	A5	3201	B2
2146	A5	3202	B2
2147	A5	3203	D5
2148	A4	3204	D4
2150	C6	3205	D3
2151	B6	3206	C3
2152	B5	3208	B3
2153	B6	3209	C7
2154	B5	3210	D6
2155	A6	3213	B3
2160	B5	3214	D5
2161	C5	3215	D5
2162	C5	3216	D5
2168	C7	3217	D5
2169	C7	3218	D5
2170	C8	4000	B6
2171	C8	5010	C3
2173	C8	5035	C1
2174	C8	5036	C1
2175	C8	5042	C1
2176	C7	5101	B2
2177	C7	5102	A3
2180	B8	5103	A2
2181	B8	5129	B4
2183	B7	5130	B4
2184	B7	5153	B6
2185	B7	6151	C8
2186	C7	6190	C9
2187	B8	6191	D9
2188	B8	6197	C8
2189	B7	7000	C2
2190	C9	7035	B1
2191	C8	7100	A2
2192	A5	7106	B1
2193	D8	7108	B1
2194	D9	7120	B4
2195	D7	7150	B5
2196	D7	7160	B5
2197	D8	7168	C7
2198	D8	7170	C8
2200	C3	7180	B7
2201	C3	7190	C9
2202	A2	7191	D9
2203	C5	7195	C8
2204	B4	7200	C3
2205	C3	7213	C4
2206	C3	7217	D5
2207	D4		
2208	C4		
2209	C4		
2210	D7		
2211	C4		
2212	C3		
2213	C3		
2214	C3		
2215	D3		
2216	C4		
2217	C6		
2218	C6		
2219	C5		
2220	C4		
2221	D4		
2222	B5		
2223	C4		
2224	C5		
2225	C4		
2226	C4		
3012	B2		
3013	B1		
3014	B2		

PIP module / PIP-Modul / Module PIP



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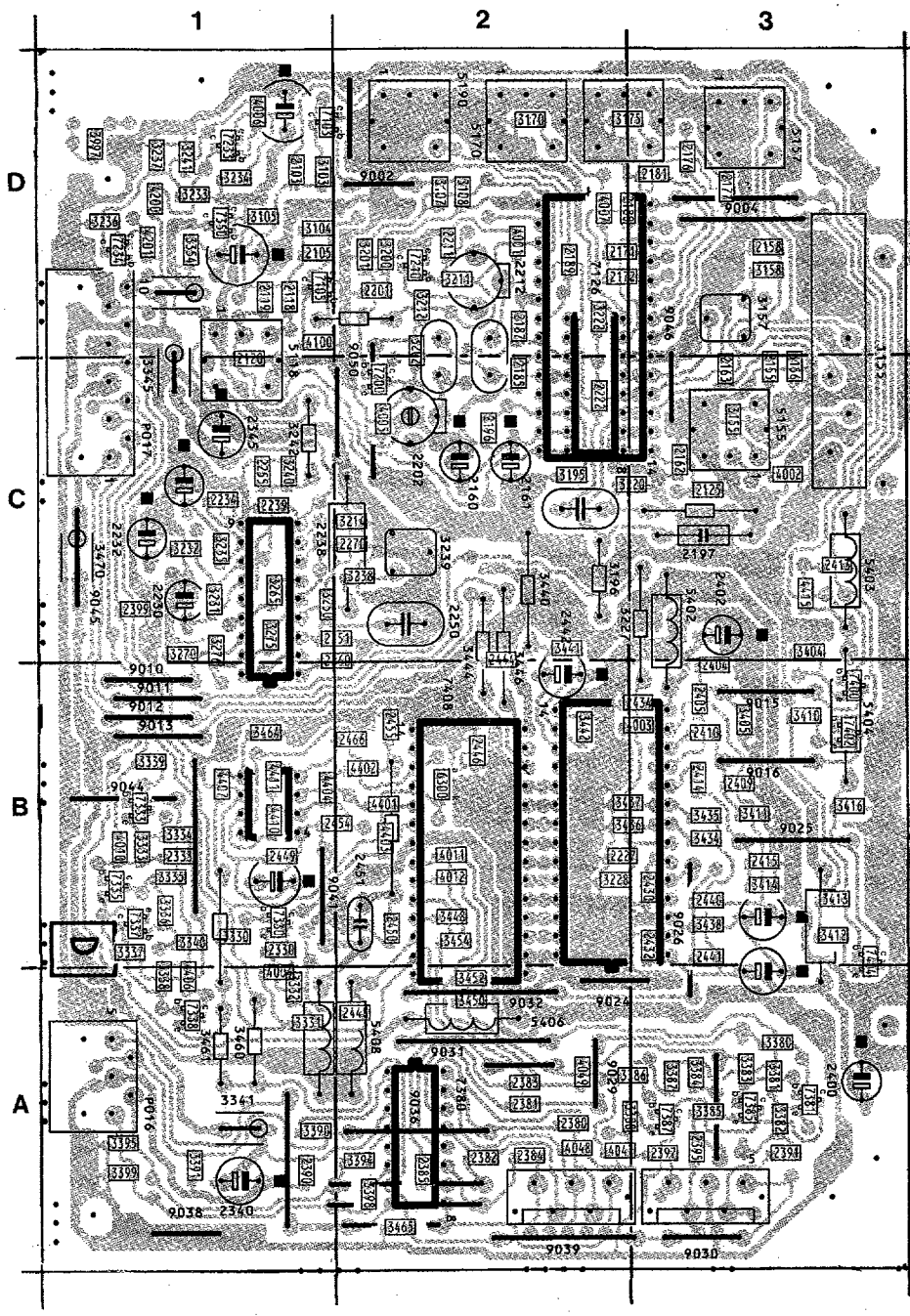
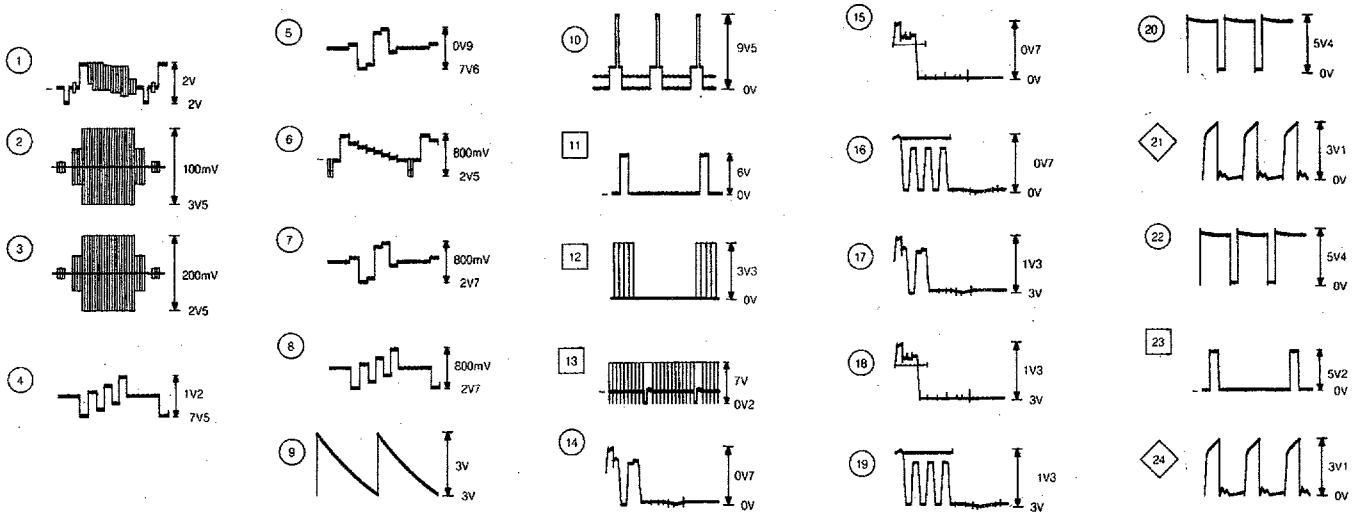
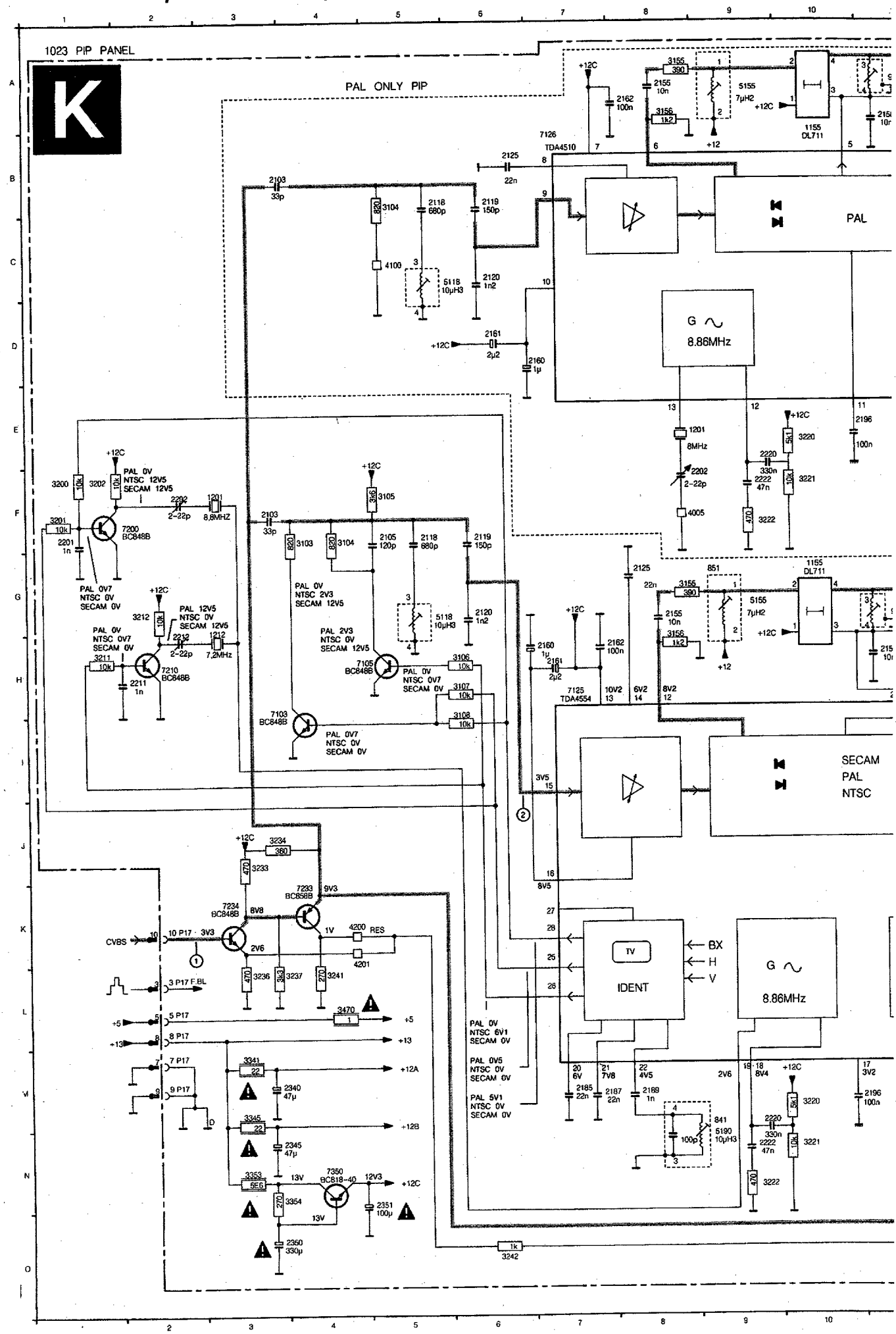
1201 D2	2405 B3	3270 C1	4001 D2	7
1212 D2	2409 B3	3275 C1	4002 C3	9
2103 D1	2410 B3	3276 C1	4003 B2	9
2105 D1	2413 C3	3330 B1	4004 A1	9
2118 D1	2414 B3	3331 A1	4005 C2	9
2119 D1	2415 B3	3332 A1	4006 D1	9
2120 D1	2430 B3	3333 B1	4007 D2	9
2125 C3	2432 B3	3334 B1	4010 B1	9
2155 C3	2434 B2	3335 B1	4011 B2	9
2158 D3	2438 B3	3336 B1	4012 B2	9
2160 C2	2439 A3	3337 B1	4047 A2	9
2161 C2	2440 B3	3338 A1	4048 A2	9
2162 C3	2441 B3	3339 B1	4049 A2	9
2163 C3	2442 B2	3340 B1	4100 D1	9
2171 D2	2444 C2	3341 A1	4200 D1	9
2172 D2	2446 B2	3345 C1	4201 D1	9
2176 D3	2448 A2	3353 D1	4401 B2	9
2177 D3	2449 B1	3354 D1	4402 B2	9
2180 D2	2450 B2	3380 A3	4403 B2	9
2181 D3	2451 B2	3381 A3	4404 B1	9
2185 C2	2454 B1	3382 A3	4406 A1	9
2187 D2	2455 B2	3383 A3	4407 B1	9
2189 D2	2459 B1	3384 A3	4410 B1	9
2196 C2	2466 B2	3385 A3	4411 B1	9
2197 C3	3103 D1	3386 A2	4415 C3	9
2201 D2	3104 D1	3387 A3	5118 D1	9
2202 C2	3105 D1	3388 A2	5155 C3	9
2211 D2	3106 D2	3390 A1	5157 D3	9
2212 D2	3107 D2	3391 A1	5170 D2	9
2220 C2	3108 D2	3394 A2	5175 D2	9
2222 C2	3155 C3	3395 A1	5190 D2	9
2227 B2	3156 C3	3398 A2	5400 B3	9
2230 C1	3157 D3	3399 A1	5402 C3	9
2232 C1	3158 D3	3404 C3	5403 C3	9
2234 C1	3170 D2	3405 B3	5404 B3	9
2235 C1	3175 D2	3410 B3	5406 A2	F
2238 C2	3195 C2	3411 B3	5408 A2	F
2239 C1	3196 C2	3412 B3	5410 A1	F
2250 C2	3200 D2	3413 B3	6300 B2	F
2251 C1	3201 D2	3414 B3	7103 D1	
2255 C1	3202 D2	3416 B3	7105 D1	
2260 C1	3211 D2	3434 B3	7125 D3	
2270 C2	3212 D2	3435 B3	7126 D2	
2330 B1	3214 C2	3436 B2	7200 C2	
2333 B1	3220 C2	3437 B2	7210 D2	
2340 A1	3221 C3	3438 B3	7233 D1	
2345 C1	3222 D2	3440 C2	7234 D1	
2350 D1	3227 C3	3441 C2	7330 B1	
2351 D1	3228 B2	3442 B2	7333 B1	
2380 A2	3231 C1	3444 C2	7335 B1	
2381 A2	3232 C1	3446 C2	7337 B1	
2382 A2	3233 D1	3448 B2	7338 A1	
2383 A2	3234 D1	3450 A2	7350 D1	
2384 A2	3235 C1	3452 A2	7380 A2	
2385 A2	3236 D1	3454 B2	7381 A3	
2390 A1	3237 D1	3460 A1	7385 A3	
2391 A3	3238 C2	3461 A1	7387 A3	
2395 A3	3239 C2	3462 B2	7400 B3	
2397 A3	3240 C1	3463 B1	7402 B3	
2399 C1	3241 D1	3464 B1	7404 B3	
2400 A3	3242 C1	3465 A2	7406 B2	
2402 C3	3250 C1	3470 C1	7408 A2	

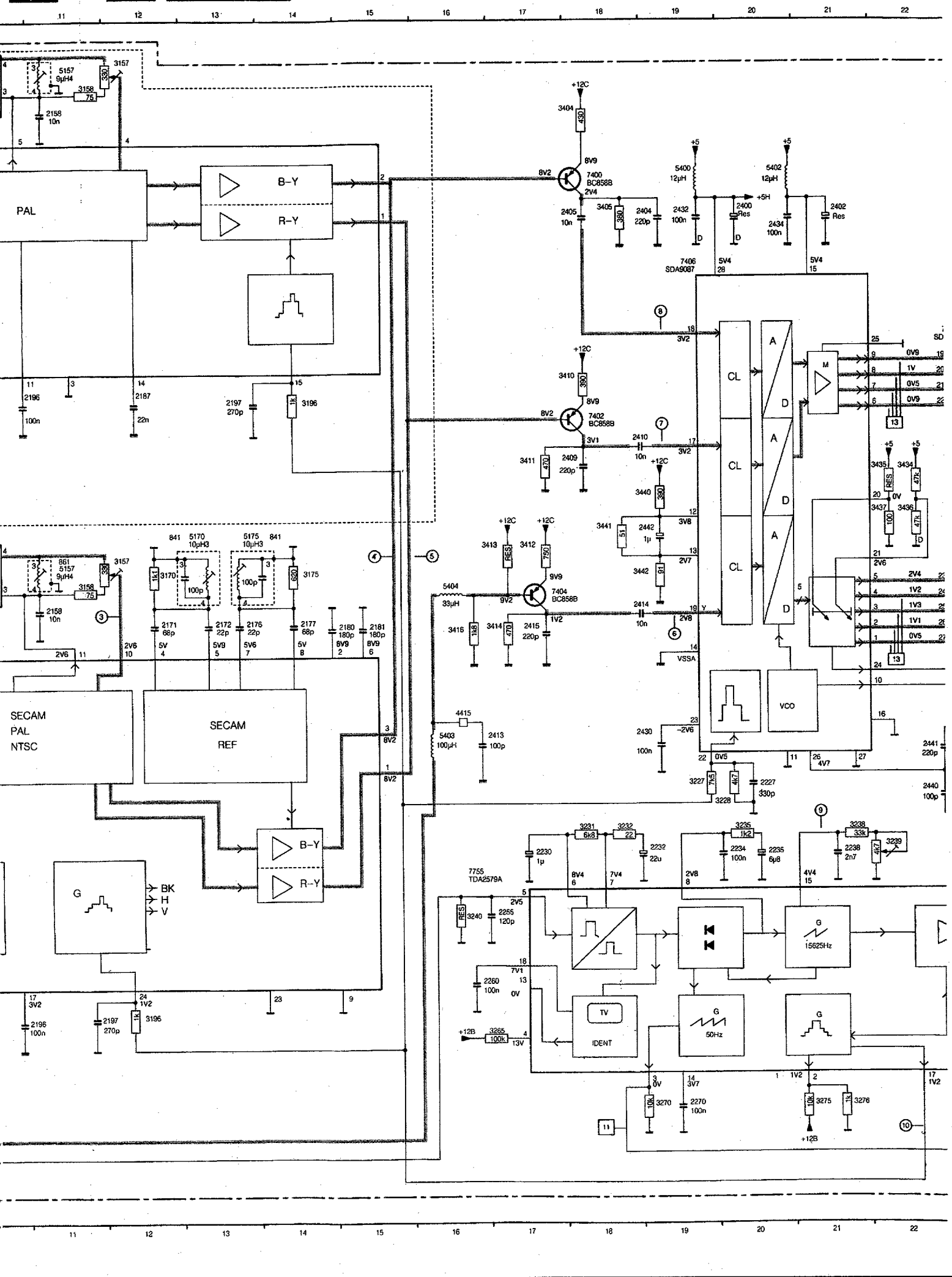


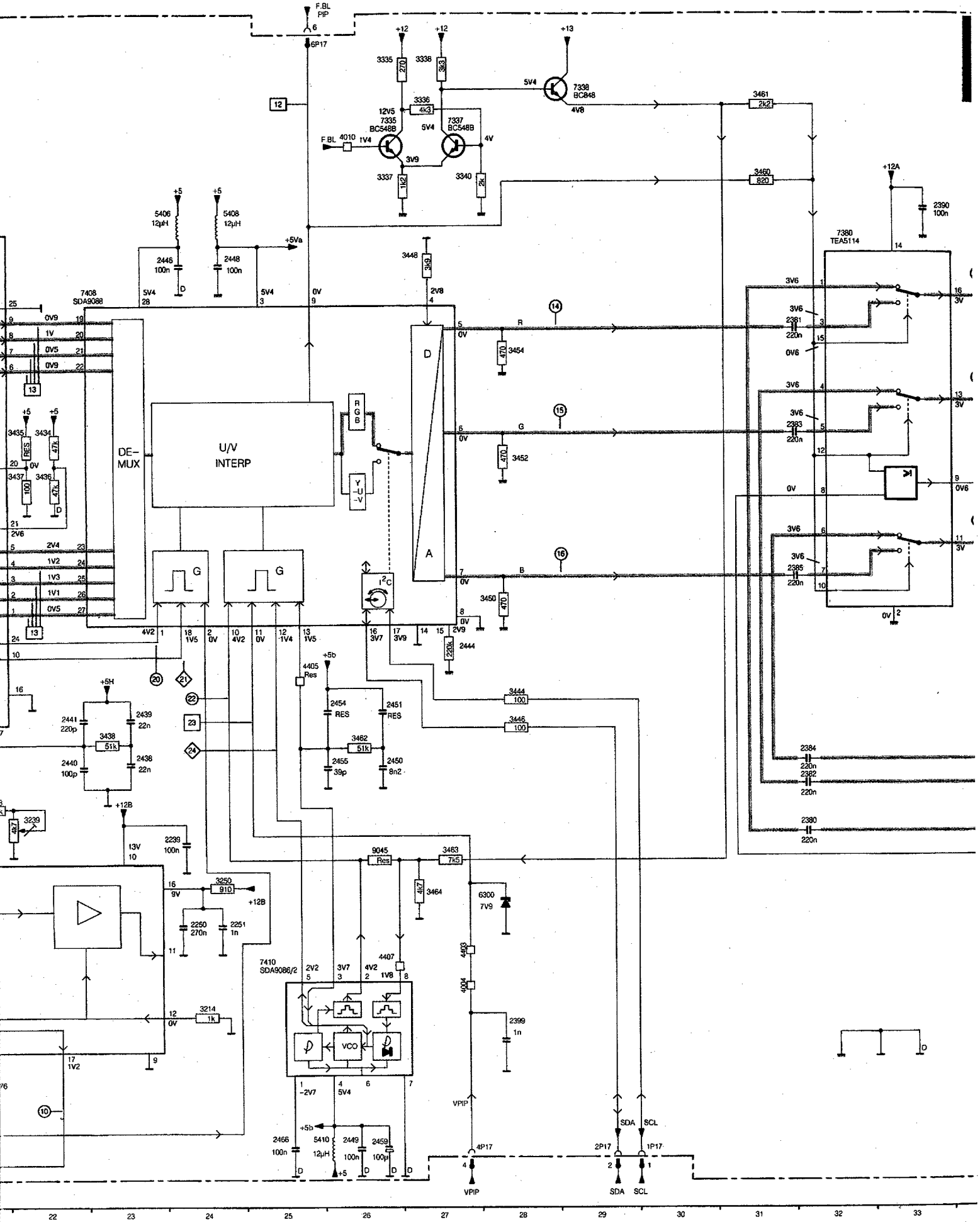
1155 C3
1201 D2
1212 D2
2103 D1
2105 D1
2118 D1
2119 D1
2120 D1
2125 C3
2155 C3
2158 D3
2160 C2
2161 C2
2162 C3
2163 C3
2171 D2
2172 D2
2176 D3
2177 D3
2180 D2
2181 D3
2185 C2
2187 D2
2189 D2
2196 C2
2197 C3
2201 D2
2202 C2
2211 D2
2212 D2
2220 C2
2222 C2
2227 B2
2230 C1
2232 C1
2234 C1
2235 C1
2238 C2
2239 C1
2250 C2
2251 C1
2255 C1
2260 C1
2270 C2
2330 B1
2333 B1
2340 A1
2345 C1
2350 D1
2351 D1
2380 A2
2381 A2
2382 A2
2383 A2
2384 A2
2385 A2
2390 A1
2391 A3
2395 A3
2397 A3
2399 C1
2400 A3
2402 C3
2404 B3
2405 B3
2409 B3
2410 B3
2413 C3
2414 B3
2415 B3
2430 B3
2432 B3
2434 B2
2438 B3
2439 A3
2440 B3
2441 B3
2442 B2
2444 C2
2446 B2
2448 A2
2449 B1
2450 B2
2451 B2
2454 B1
2455 B2
2459 B1
2466 B2
3103 D1
3104 D1
3105 D1
3106 D2
3107 D2
3108 D2
3155 C3
3156 C3
3157 D3
3158 D3
3170 D2
3175 D2
3195 C2
3196 C2
3200 D2
3201 D2
3202 D2
3211 D2
3212 D2
3214 C2
3220 C2
3221 C3
3222 D2
3227 C3
3228 B2
3231 C1
3232 C1
3233 D1
3234 D1
3235 C1
3236 D1
3237 D1
3238 C2
3239 C2
3240 C1
3241 D1
3242 C1
3250 C1
3265 C1
3270 C1
3275 C1
3276 C1
3330 B1
3331 A1
3332 A1
3333 B1
3334 B1
3335 B1
3336 B1
3337 B1
3338 A1
3339 B1
3340 B1
3341 A1
3345 C1
3353 D1
3354 D1
3360 A3
3381 A3
3382 A3
3383 A3
3384 A3
3385 A3
3386 A2
3387 A3
3388 A2
3390 A1
3391 A1
3394 A2
3395 A1
3398 A2
3399 A1
3404 C3
3405 B3
3410 B3
3411 B3
3412 B3
3413 B3
3414 B3
3416 B3
3434 B3
3435 B3
3436 B2
3437 B2
3438 B3
3440 C2
3441 C2
3442 B2
3444 C2
3446 C2
3448 B2
3450 A2
3452 A2
3454 B2
3460 A1
3461 A1
3462 B2
3463 B1
3464 B1
3465 A2
3470 C1
3997 D1
4001 D2
4002 C3
4003 B2
4004 A1
4005 C2
4006 D1
4007 D2
4010 B1
4011 B2
4012 B2
4047 A2
4048 A2
4049 A2
4100 D1
4200 D1
4201 D1
4401 B2
4402 B2
4403 B2
4404 B1
4405 A1
4407 B1
4410 B1
4411 B1
4415 C3
5118 D1
5155 C3
5157 D3
5170 D2
5175 D2
5190 D2
5400 B3
5402 C3
5403 C3
5404 B3
5405 A2
5408 A2
5410 A1
6300 B2
7103 D1
7105 D1
7125 D3
7126 D2
7200 C2
7210 D2
7233 D1
7234 D1
7330 B1
7333 B1
7335 B1
7337 B1
7338 A1
7350 D1
7380 A2
7381 A3
7385 A3
7387 A3
7400 B3
7402 B3
7404 B3
7405 B2
7408 A2
7410 B1
7755 B1
9002 D2
9003 D3
9004 D3
9007 C2
9010 B1
9011 B1
9012 B1
9013 B1
9015 B3
9016 B3
9024 A2
9025 B3
9026 B3
9027 A3
9028 A3
9029 A2
9030 A3
9031 A2
9032 A2
9033 A2
9034 A2
9035 A2
9036 A2
9037 A1
9038 A1
9039 A2
9040 D2
9041 B1
9042 A2
9043 B1
9044 B1
9045 C1
9046 C3
9050 C2
P016 A1
P017 C1
P56 A2
P57 A3

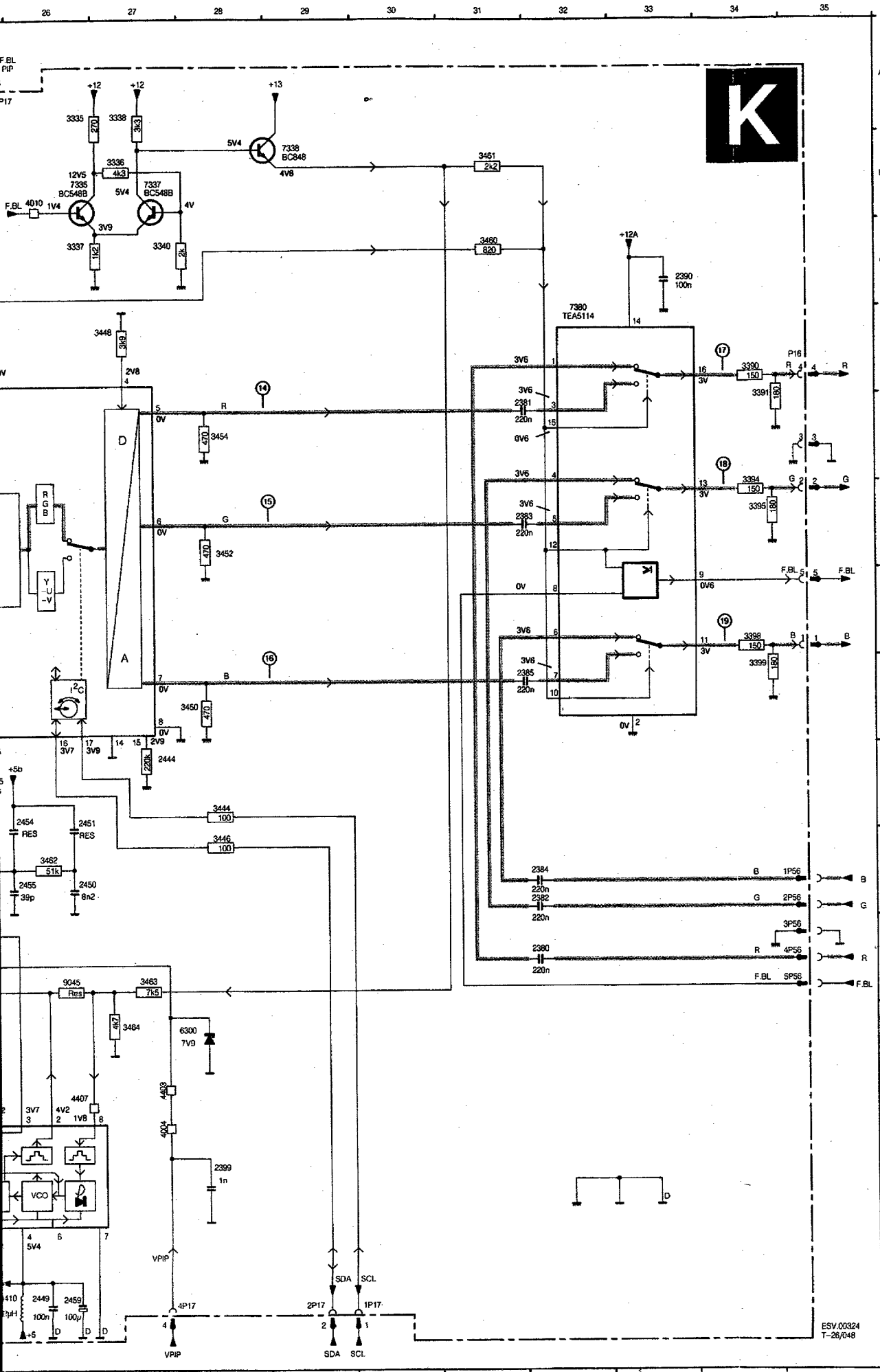


PIP module / PIP-Modul / Module PIP




PAL
B-Y
R-Y
SECAM
PAL
NTSC
SECAM
REF
B-Y
R-Y
G
BK
H
V
7400
BC858B
7402
BC858B
7404
BC858B
7406
SDA9087
CL
A
D
M
VCO
7755
TDA2579A
TV
IDENT
G
15625Hz
G
50Hz
VSSA
+12C
+12B
+5
+5H


F.BL PIP
6P17
+12
+13
5V4
7338 BC848
4V8
3335 270
3338 3k3
3336 4k3
12V5
7335 BC548B
5V4
7337 BC548B
4V
F.BL 4010 1V4
3V9
3337 1k2
3340 2k
3461 2k2
3460 820
+12A
2390 100n
7380 TEA5114
5406 12µH
5408 12µH
+5
+5Va
2445 100n
2448 100n
5V4
0V
2V8
3448 3k9
7408 SDA9088
DE-MUX
U/V INTERP
R G B
Y -U -V
D
A
I²C
G
3454 470
3452 470
3450 470
3V6
0V6
2381 220n
2383 220n
2385 220n
2384 220n
2382 220n
2380 220n
3435 RES
3434 47k
3437 100
3436 47k
2V6
3239 4k7
+5H
2441 220p
2439 22n
3438 51k
2440 100p
2438 22n
+12B
2239 100n
4405 Res
2454 RES
2451 RES
3462 51k
2455 39p
2450 8n2
3444 100
3446 100
9045 Res
3463 7k5
4k7 3464
6300 7V9
3250 910
2250 270n
2251 1n
7410 SDA9086/2
4407
4403
4404
2399 1n
VCO
3214 1k
2466 100n
5410 12µH
2449 100n
2459 100µ
VPIP
4P17
2P17
1P17
SDA
SCL



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1155	G10	3276	N21
1201	E9	3335	A26
1201	F3	3336	B27
1212	H3	3337	C26
2103	B4	3338	A27
2103	F3	3340	C27
2105	F5	3341	M3
2118	B5	3345	M3
2118	F5	3353	N3
2119	B6	3354	N3
2119	F6	3390	D34
2120	C6	3391	E34
2120	G6	3394	F34
2125	B6	3395	F34
2125	G8	3398	G34
2155	A8	3399	H34
2155	G8	3404	A18
2158	A11	3405	C18
2158	H11	3410	E18
2160	D7	3411	F17
2160	H7	3412	G17
2161	D6	3413	G17
2161	H7	3414	H17
2162	A8	3416	H16
2162	H8	3434	F22
2171	H12	3435	F22
2172	H13	3436	G22
2176	H13	3437	G22
2177	H14	3438	J23
2180	H15	3440	F19
2181	H15	3441	G18
2185	M7	3442	G19
2187	E12	3444	I 28
2187	M7	3446	J28
2189	M8	3448	D27
2196	E11	3450	H28
2196	M11	3452	F28
2197	E13	3454	E28
2197	M12	3460	C31
2201	F1	3461	B31
2202	F2	3462	J26
2202	F9	3463	K27
2211	H2	3464	L27
2212	H2	3470	L4
2220	E9	4004	M27
2220	M9	4005	F9
2222	F9	4010	B26
2222	N9	4100	C5
2227	J20	4200	K4
2230	K17	4201	K4
2232	K19	4403	M27
2234	K20	4405	I 25
2235	K20	4407	M26
2238	K21	4415	I 16
2239	K24	5118	C6
2250	L24	5118	G5
2251	L24	5155	A9
2255	L17	5156	G8
2260	M16	5157	A11
2270	N19	5157	G11
2340	M3	5170	G13
2345	N3	5175	G13
2350	O3	5190	N9
2351	N5	5400	B19
2380	K32	5402	B20
2381	E32	5403	I 16
2382	J32	5404	G16
2383	F32	5406	C24
2384	J32	5408	C24
2385	H32	5410	O25
2390	C33	6300	L28
2399	M28	7103	H4
2400	C20	7105	H5
2402	C21	7125	H7
2404	C19	7126	B7
2405	C18	7200	F2
2409	F18	7210	H2
2410	F19	7233	K4
2413	I 17	7234	K3
2414	H19	7335	B26
2415	H17	7337	B27
2430	I 19	7338	B29
2432	C19	7350	N4
2434	C20	7380	D32
2438	J23	7400	B18
2439	J23	7402	E18
2440	J22	7404	H17
2441	J22	7406	C19
2442	G19	7408	O23
2444	I 27	7410	M25
2446	D24	7755	K16
2448	D24	9045	K26
2449	O26		
2450	J26		
2451	I 26		
2454	I 26		
2455	J26		
2459	O26		
2466	O25		
3103	F4		
3104	B5		
3104	F4		
3105	F5		
3106	H6		
3107	H6		
3108	I 6		
3155	A8		
3155	G8		
3156	A8		
3156	H8		
3157	A12		
3157	G12		
3158	A11		
3158	G11		
3175	G12		
3175	G14		
3196	E14		
3196	M12		
3200	F1		
3201	F1		
3202	F1		
3211	H1		
3212	G2		
3214	M24		
3220	E10		
3220	M10		
3221	F10		
3221	N10		
3222	F9		
3222	N9		
3227	J19		
3228	J20		
3231	K18		
3232	K18		
3233	J3		
3234	J3		
3236	K20		
3236	L3		
3237	L3		
3238	K21		
3239	K22		
3240	L16		
3241	L4		
3242	O6		
3250	L24		
3265	M17		
3270	N19		

Setting conditions

All electrical settings should be made under the following conditions:

* supply voltage: 220 - 240 V ± 10%; 50 Hz ± 5%
* warming-up time ≈ 10 minutes
* the voltages and oscillograms have been measured with regard to tuner earth.
* measuring probe: Ri > 10 MΩ; Ci < 2.5 pF.

1. Settings on the carrier board

1.1 +148V/+95V supply voltage

Connect a voltmeter over C2631. Using R3635, set the supply voltage to +148V ± 0.5V for 25" and 28" units or to 95V ± 0.5V for 21" units.

1.2 Focusing

This is set using the focusing potentiometer (on the top of the line output transformer).

1.3 Vg2 setting

Connect a pattern generator and supply a blanking frame signal (black picture). Switch the unit to the service default mode (see section 9).
Connect an oscilloscope to the emitters of transistors 7304 and 7364 on the picture tube module. Set the oscilloscope to frame frequency. Measure the DC voltage level of the measuring pulses (see Fig. 7.2). Using the Vg2 potentiometer on the line output transformer, set the measuring pulse with the lowest DC voltage level to:

* +153V ± 5V for 25" and 28" blackline units (protected high-voltage cable)
* +130V ± 5V for 28" non-blackline units
* +118V ± 5V for 25" non-blackline units
* +120V ± 5V for 21" units.

1.4 Horizontal synchronization

Connect pin 5-IC7470 to pin 9-IC7470.
Supply an aerial signal and tune the set.
Adjust potentiometer 3457 until the picture is straight. Remove the interconnection.

1.5 Horizontal centring

Set using potentiometer 3461.

1.6 Picture width

Set using potentiometer 3525.

1.7 Vertical centring

Set using potentiometer 3516.

1.8 Picture height

Set using potentiometer 3504.

1.9 East/West correction

Set using potentiometer 3521. This setting is only for 25" and 28" units.

1.10 Chroma bandpass filter

a. Setting for PAL/SECAM sets (TDA4650)

Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.286 MHz/0.2 Vpp. Switch the unit to EXT1. Connect pin 27-IC7306 to pin 13-IC7306 (+12V). Connect an oscilloscope to pin 15-IC7306.
Set 5301 to maximum amplitude.
Remove the interconnection.

b. Setting for PAL

Connect a sign
pin 20 of the e
frequency to 4
Connect an osc
Set 5301 to m

1.11 Chroma auxilia

Connect a patt
colour bar patt
(TDA4510) or
Set 2313 so th
practically stop

1.12 SECAM demod (TDA4650)

Connect a patt
black pattern.
1-IC7306. Set
Connect the os
3312 to minim

1.13 White balance

Connect a patt
picture. Switch
and select "WH
Set the value c
"Blue" to 46. I
are required.

1.14 Peak white limi

Switch on the
select "WHITE
Set "WHITE LI
- 43 for blackli
- 53 for non-bl
- 53 for 21" ur

1.15 Cut-off points

Connect a patt
picture. Switch
"CUT OFF".
Set the value o
to 16, and for
futher adjustm

1.16 Options

Switch on the
"OPTION 1" or
Switch the opt
whether the fo
- "PIP" on a P
- "2ND SCAR euroconnect
- "TELETEXT"
- "SVHS" for
- "MULTI SYS
- "HYPERBAN to the freque
- "UHF ONLY" tuned to the
- "NICAM TW receive NICA
- "SIXTEEN/NI screen size for 25"/28"

Electrical adjustments

Setting conditions

All electrical settings should be made under the following conditions:

* supply voltage: 220 - 240 V ± 10%; 50 Hz ± 5%
* warming-up time ≈ 10 minutes
* the voltages and oscillograms have been measured with regard to tuner earth.
* measuring probe: Ri > 10 MΩ; Ci < 2.5 pF.

1. Settings on the carrier board

1.1 +148V/+95V supply voltage

Connect a voltmeter over C2631. Using R3635, set the supply voltage to +148V ± 0.5V for 25" and 28" units or to 95V ± 0.5V for 21" units.

1.2 Focusing

This is set using the focusing potentiometer (on the top of the line output transformer).

1.3 Vg2 setting

Connect a pattern generator and supply a blanking frame signal (black picture). Switch the unit to the service default mode (see section 9).
Connect an oscilloscope to the emitters of transistors 7304 and 7364 on the picture tube module. Set the oscilloscope to frame frequency. Measure the DC voltage level of the measuring pulses (see Fig. 7.2). Using the Vg2 potentiometer on the line output transformer, set the measuring pulse with the lowest DC voltage level to:

* +153V ± 5V for 25" and 28" blackline units (protected high-voltage cable)
* +130V ± 5V for 28" non-blackline units
* +118V ± 5V for 25" non-blackline units
* +120V ± 5V for 21" units.

1.4 Horizontal synchronization

Connect pin 5-IC7470 to pin 9-IC7470.
Supply an aerial signal and tune the set.
Adjust potentiometer 3457 until the picture is straight. Remove the interconnection.

1.5 Horizontal centring

Set using potentiometer 3461.

1.6 Picture width

Set using potentiometer 3525.

1.7 Vertical centring

Set using potentiometer 3516.

1.8 Picture height

Set using potentiometer 3504.

1.9 East/West correction

Set using potentiometer 3521. This setting is only for 25" and 28" units.

1.10 Chroma bandpass filter

a. Setting for PAL/SECAM sets (TDA4650)

Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.286 MHz/0.2 Vpp. Switch the unit to EXT1. Connect pin 27-IC7306 to pin 13-IC7306 (+12V). Connect an oscilloscope to pin 15-IC7306.
Set 5301 to maximum amplitude.
Remove the interconnection.

b. Setting for PAL sets (TDA4510)

Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.43 MHz. Connect the unit to EXT1.
Connect an oscilloscope to pin 9-IC7305.
Set 5301 to maximum amplitude.

1.11 Chroma auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 11-IC7305 (TDA4510) or pin 17-IC7306 (TDA4650) to earth.
Set 2313 so that the colour on the screen has practically stopped. Remove the interconnection.

1.12 SECAM demodulators for PAL/SECAM sets (TDA4650)

Connect a pattern generator and supply a SECAM black pattern. Connect an oscilloscope to pin 1-IC7306. Set 5304 to minimum amplitude.
Connect the oscilloscope to pin 3-IC7306. Set 3312 to minimum amplitude.

1.13 White balance

Connect a pattern generator and select a white picture. Switch on the service menu (see section 9 and select "WHITE BALANCE".
Set the value of "Green" to 51, and the Value of "Blue" to 46. In most cases no futher adjustments are required.

1.14 Peak white limit

Switch on the service menu (see section 9) and select "WHITE BALANCE".
Set "WHITE LIMIT" to the value:

- 43 for blackline units
- 53 for non-blackline units
- 53 for 21" units.

1.15 Cut-off points of the picture tube

Connect a pattern generator and select a black picture. Switch on the service menu and select "CUT OFF".
Set the value of "Red" to 56, and fore "Green" to 16, and for "Blue" to 15. In most cases no futher adjustments are required.

1.16 Options

Switch on the service menu and select "OPTION 1" or "OPTION 2".
Switch the options "ON" and "OFF" according to whether the following options are present:

- "PIP" on a PIP set
- "2ND SCART" on a set with two euroconnectors
- "TELETEXT" on a teletext set
- "SVHS" for the Y/C connector in mono sets
- "MULTI SYSTEM" for multisystem sets
- "HYPERBAND" for a tuner which can be tuned to the frequency band of 300 MHz to 450 MHz
- "UHF ONLY" for a tuner which can only be tuned to the UHF band
- "NICAM TWIN" for stereo sets which can also receive NICAM sound.
- "SIXTEEN/NINE" for switching between normal screen size and wide screen size. (only valid for 25"/28" Black-Line sets).

2. Settings on the IF/sound module

2.1 AFC and the picture demodulator

a. Setting for multisystem units

Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 33.4 MHz for mono sets or to 33.95 MHz for stereo sets. Modulate (AM) the signal with, for example, 1kHz.
Tune mono sets to VHF1 band at a tuning voltage of approximately 5V at pin 11 of the tuner. The "search" (selection B of the manual installation menu) can be stopped by selecting menu selection C "programme".
Set stereo sets to a tuning frequency of 45 MHz. Select system France.
AFC: using 5036 set the voltage at pin 15-IC7000 to 6V (DC).
Picture demodulator: set 5035 to a maximum (undistorted) signal at pin 22-IC7000.
Then set the frequency of the signal generator to 38.9 MHz. Select system Europe on the set.
AFC: using 5038 set the voltage at pin 15-IC7000 to 6V (DC).
Picture demodulator: set 5037 to a maximum (undistorted) signal at pin 22-IC7000.
Adjacent channel suppression (mono sets):
Then set the frequency of the signal generator to 33.4 MHz. Place pin 9-IC7000 at a fixed voltage of +1V using a laboratory supply. Tune the set to the UHF band and select system France.
Set 5005 to a minimum signal at pin 22-IC7000.

b. Setting for single-system units

Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 38.9 MHz. Modulate (AM) the signal with, for example, 1kHz.
AFC: using 5036 set the voltage at pin 15-IC7000 to 6V (DC).
Picture demodulator: set 5035 to a maximum (undistorted) signal at pin 22-IC7000.

2.2 RF-AGC

If the picture from a strong local transmitter is distorted, adjust 3016 until the picture is not distorted.

2.3 MF-AGC (Multisystem units)

Connect a pattern generator and supply a SECAM-L colour bar signal. Connect an oscilloscope to pin 22-IC7000. Set the amplitude of the video signal with 3048 to 1.7 Vpp for stereo units or to 1.8 Vpp for mono units.

2.4 AM-IF sound filter (Multisystem units)

Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 30.9 MHz. Modulate (AM) the signal with 1kHz, for example. Tune the unit to UHF band and select system France. Connect an oscilloscope to pin 9-IC7100 and set 5100 to minimum amplitude.
Place pin 3-IC7100 on a fixed voltage of +2V using a laboratory supply.
Set the frequency of the generator to 32.4 MHz and set 5101 and 5102 to maximum amplitude.

2.5 IF sound demodulator (stereo and NICAM units)

Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 38.9 MHz. Modulate (AM) the signal with 1kHz, for example. Connect an oscilloscope to pin 17-IC7100 (TDA3856) or pin 15-IC7101 (TDA3857) (for non-multi sets) and set 5104 to minimum amplitude.

2.6 5.5 MHz or 6.0 MHz FM sound demodulator

Connect a pattern generator and supply a PAL signal with FM mono sound. Set 5105 (mono and stereo units) or 5102 (NICAM units) to maximum sound reproduction.

2.7 5.742 MHz FM sound demodulator (stereo and NICAM units)

Connect a pattern generator and supply a PAL BG signal with two-language sound. Select language II on the unit with the remote control.
Set 5103 (stereo units) or 5101 (NICAM units) to maximum sound reproduction.

2.8 Stereo matrix (stereo and NICAM units)

Connect a pattern generator and supply a PAL BG signal with stereo sound. Select only the right-hand channel sound. Set the balance of the unit completely to the left.
Set 3204 (stereo units) or 3200 (NICAM PAL BG units) to minimum sound reproduction.

2.9 NICAM demodulator (NICAM units)

Connect a pattern generator and supply a PAL signal with NICAM sound. Connect the X-input of the oscilloscope to pin 19-IC7120. Connect the Y-input of the oscilloscope to pin 20-IC7120. Set the oscilloscope to the X-Y position. Set the sensitivity of the oscilloscope to 1V/div AC. Set the X and Y position so that the cross pattern is in the centre of the oscilloscope picture.
Set 2124 on a straight cross pattern (see fig. 7.3).

2.10 "Sample" clock oscillator (NICAM units)

Connect a pattern generator and supply a PAL signal with NICAM sound. Connect an oscilloscope to pin 9-IC7150. Set the sensitivity of the oscilloscope to 1V/div and the time base to 2μs/div.
Set 2155 so that a symmetrical block wave is visible.

3. Adjustment on the teletext decoder

Connect pin 22-IC7830 to earth. Connect a frequency counter to pin 17-IC7830 and set 5803 to 6000 MHz ± 30kHz.
Remove the interconnection.

4. Adjustments on the PIP module

Adjustment conditions
Before making each adjustment, ensure that a PIP picture with the prescribed signal is visible on the screen and that the unit has reached its operating temperature (after ≈ 10 min.).

4.1 Horizontal synchronization
Do not supply an aerial or generator signal.
Connect pin 28-IC7125 to pin 13-IC7125 if TDA4554 is present (PAL selection). Connect pin 5-IC7755 to earth.
Measure the frequency at pin 17-IC7755 and using 3239 set it to 15.625 Hz ± 25 Hz.
Remove the interconnection.

4.2 Chroma bandpass filter

a. Adjustment for PIP modules with TDA4554
Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to 4.286 MHz/0.2 Vpp.
Connect pin 27-IC7125 to 13-IC7125. Connect an oscilloscope to pin 15-IC7125.
Set 5118 to maximum amplitude.
Remove the interconnection.

b. Adjustment for PIP modules with TDA4510
Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to 4.43 MHz/0.2Vpp.
Connect an oscilloscope to pin 9-IC7126.
Set 5118 to maximum amplitude.

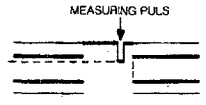
4.3 PAL chroma auxiliary oscillator
Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7125 (TDA4554) or pin 11-IC7126 (TDA4510) to earth.
Set 2202 so that the colour of the PIP picture is practically still.
Remove the interconnection.

4.4 NTSC chroma auxiliary oscillator for PIP modules with TDA4554
Connect a pattern generator and supply an NTSC M colour bar pattern. Connect pin 17-IC7125 to earth. Set 2202 so that the colour of the PIP picture is practically still.
Remove the interconnection.

4.5 Delay line
Connect a pattern generator and supply a PAL colour bar signal. Connect the X-input of the oscilloscope to pin 1-IC7125 (TDA4554) or pin 1-IC7126 (TDA4510). Connect the Y-input of the oscilloscope to pin 3-IC7125 (TDA4554) or pin 2-IC7126 (TDA4510). Set the oscilloscope to the X-Y position.
Set 5155 and 5157 so that the vectors lie in one line (points which are furthest from the origin).
Set the pattern generator to the "DEM" mode.
Set R3157 so that the vectors lie on top of one another in the origin.

4.6 SECAM identification for PIP modules with TDA4554
Connect a pattern generator and supply a SECAM colour bar signal.
Connect pin 27-IC7125 to pin 13-IC7125.
Connect an oscilloscope to pin 21-IC7125.
Set 5190 to minimum DC level.
Remove the interconnection.

4.7 SECAM demodulators for PIP modules with TDA4554
Connect a pattern generator and supply a SECAM signal without contents (black). Connect pin 27-IC7125 to pin 13-IC7125. Connect an oscilloscope to pin 1-IC7125. Using 5175, set the DC level during the scan equal to the DC level during the flyback.
In the same way set 5170, but now measure at pin 3-IC7125.
Remove the interconnection.



PRS.06772
T-26/034

Fig. 7.1

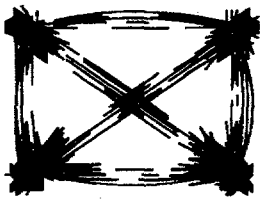


Fig. 7.2

MDA.01468
T28/826

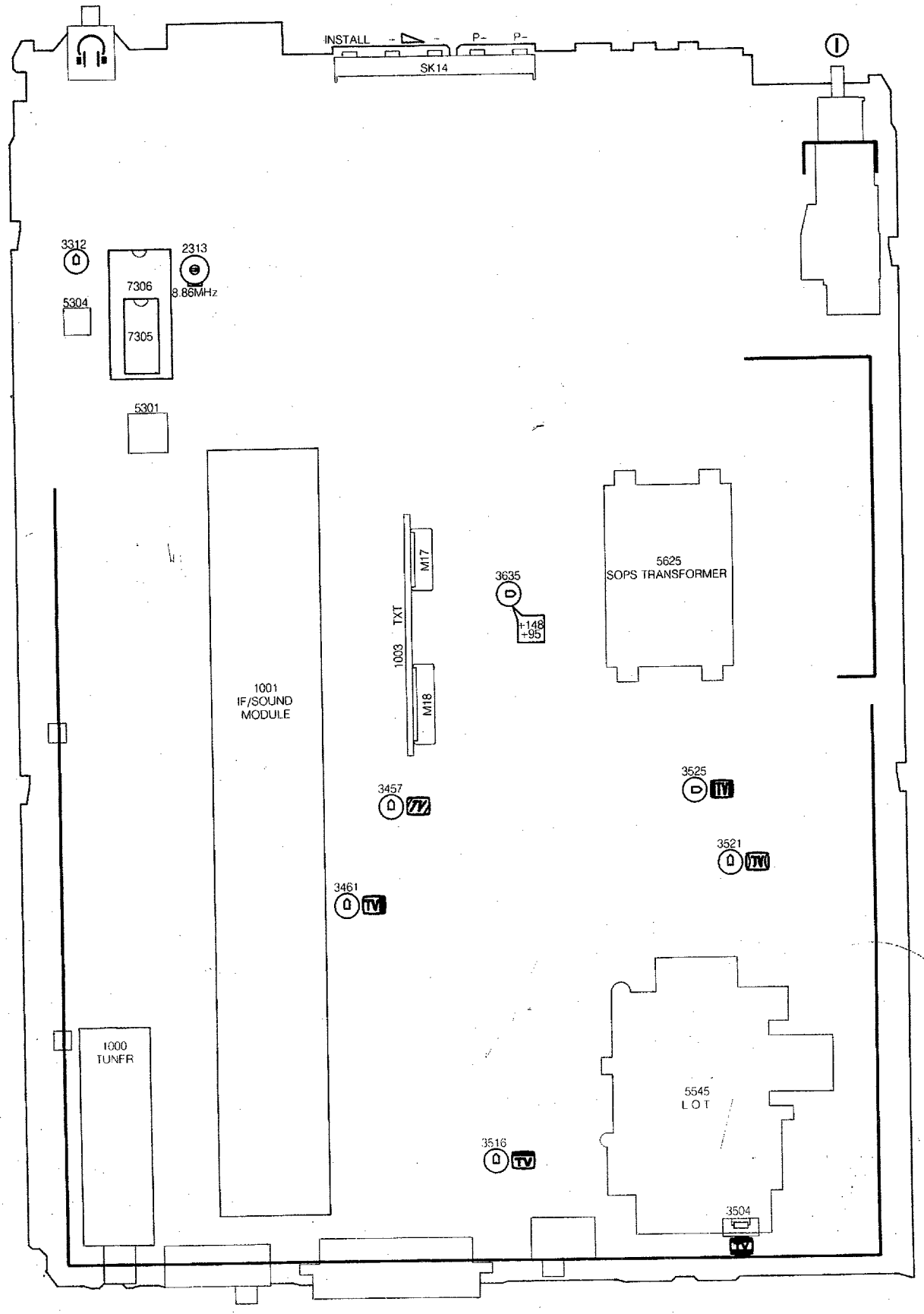
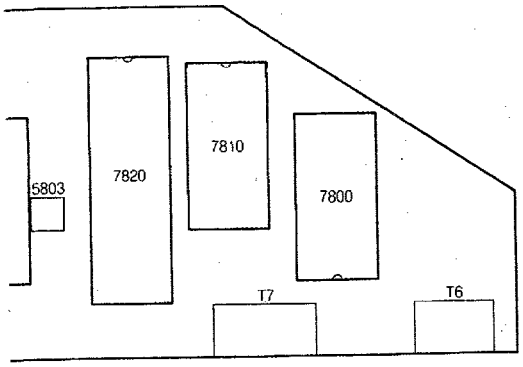
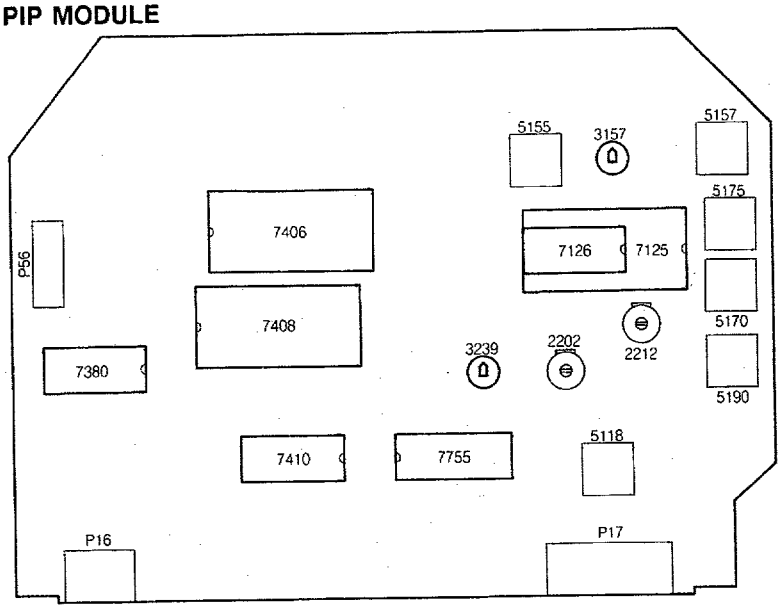

MAIN PANEL
INSTALL
SK14
3312
2313
7306
8.86MHz
5304
7305
5301
1001
IF/SOUND
MODULE
1003 TXT
M17
M18
3635
+148
+95
5625
SOPS TRANSFORMER
3457
3525
3521
3461
1000
TUNER
5545
LOT
3516
3504

Fig. 7.

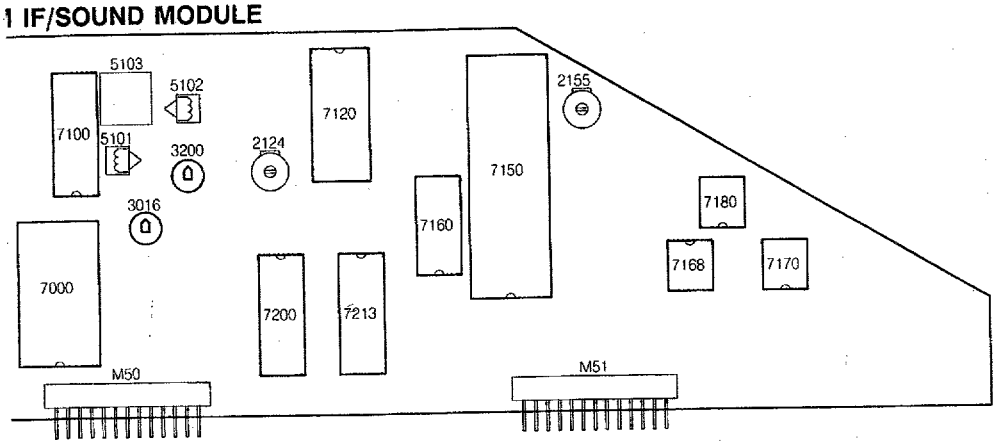
ODULE



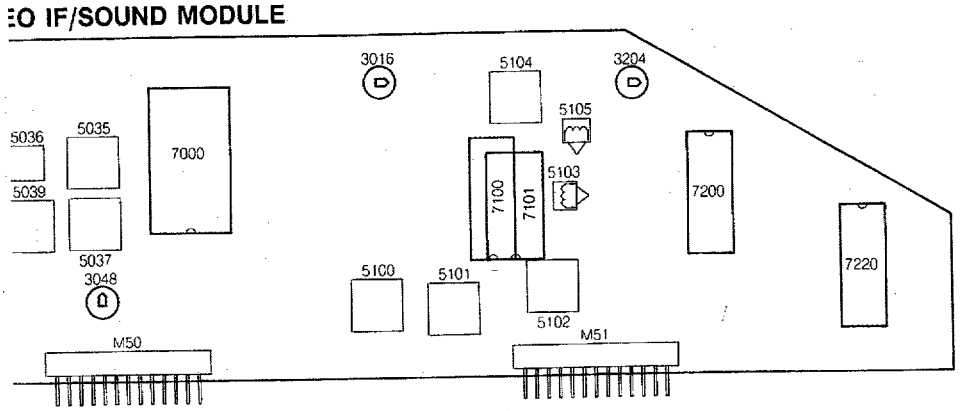
PIP MODULE



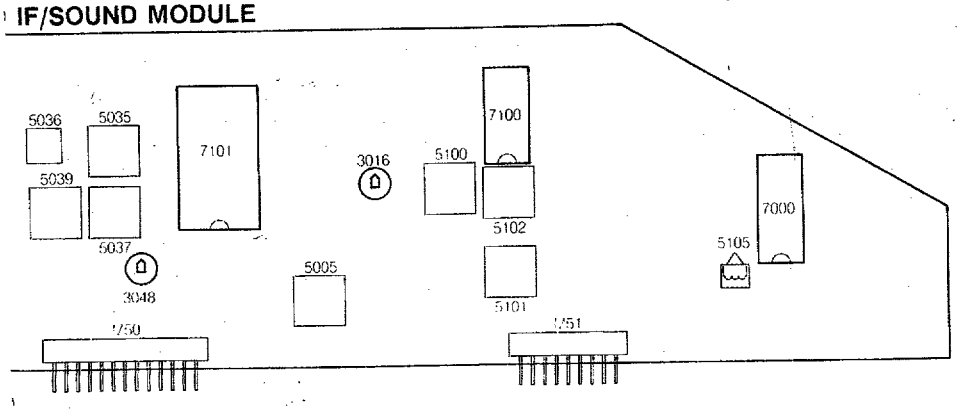
1 IF/SOUND MODULE



EO IF/SOUND MODULE



IF/SOUND MODULE



MDA 02965
128/107

Repair tips

1. Servicing of SMDs (Surface Mounted Devices)

1.1 General cautions on handling and storage

a. Oxidation on the terminals of SMDs results in poor soldering. Do not handle SMDs with bare hands.

b. Avoid using storage places that are sensitive to oxidation such as places with sulphur or chlorine gas, direct sunlight, high temperatures or a high degree of humidity.
The capacitance or resistance value of the SMDs may be affected by this.

c. Rough handling of circuit boards containing SMDs may cause damage to the components as well as the circuit boards. Circuit boards containing SMDs should never be bent or flexed. Different circuit board materials expand and contract at different rates when heated or cooled and the components and/or solder connections may be damaged due to the stress. Never rub or scrape chip components as this may cause the value of the component to change. Similarly, do not slide the circuit board across any surface.

1.2 Removal of SMDs

a. Heat the solder (for 2-3 seconds) at each terminal of the chip. By means of litz wire and a slight horizontal force, small components can be removed with the soldering iron. They can also be removed with a solder sucker (see Fig. 8.1A) or:

b. While holding the SMD with a pair of tweezers, take it off gently using the soldering iron's heat applied to each terminal (see Fig. 8.1B).

c. Remove the excess solder on the solder lands by means of litz wire or a solder sucker (see Fig. 8.1C).

Caution on removal:

a. When handling the soldering iron, use suitable pressure and be careful.

b. When removing the chip, do not use undue force with the pair of tweezers.

c. The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250°C).

d. The chip, once removed, must **never** be reused.

1.3 Attachment of SMDs

a. Locate the SMD on the solder lands by means of tweezers and solder the component on one side. Ensure that the component is positioned correctly on the solder lands (see Fig. 8.2A).

b. Next complete the soldering of the terminals of the component (see Fig. 8.2B).

Caution when attaching SMDs:

a. When soldering the SMD terminals, do not touch them directly with the soldering iron. The soldering should be done as quickly as possible; care must be taken to avoid damage to the terminals of the SMDs themselves.

b. Keep the SMD's body in contact with the printed board when soldering.

c. The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250°C).

d. Soldering should not be done outside the solder land.

e. Soldering flux (of rosin) may be used, but should not be acidic.

f. After soldering, let the SMD cool down gradually at room temperature.

g. The quantity of solder must be proportional to the size of the solder land. If the quantity is too great, the SMD might crack or the solder lands might be torn loose from the printed board (see Fig. 8.3).

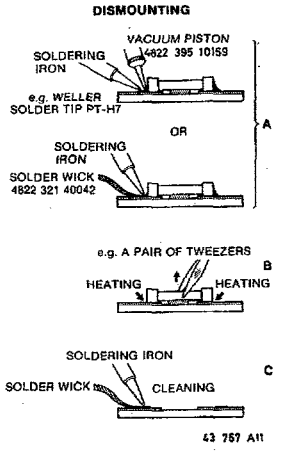


Fig. 8.1

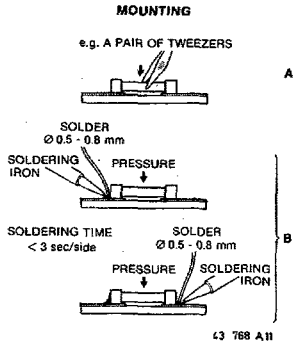


Fig. 8.2

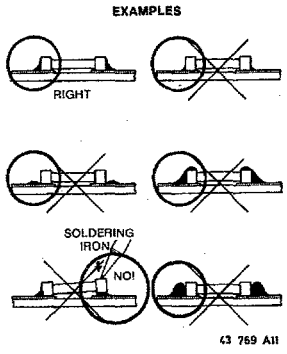


Fig. 8.3

2. Replacing the EEPROM IC7710

If the EEPROM has to be replaced during a repair, the microprocessor will load the EEPROM with a number of default values for the white balance, peak white limit and cut-off point settings.
However, all these values should be checked and adjusted, if necessary.
All options should also be set, the programs installed and personal preference set.

3. Table of error messages

Error indication	Description	Possible fault
OSD: ERR PIP	I^2C fault PIP module	* +5 on PIP module * IC7406
OSD: ERR TXT	I^2C fault TXT module	* +5 on teletext module * IC7800
OSD: ERR NICAM	I^2C fault IC7160 (NICAM units)	* +5 on IF/sound module * IC7160, C2160, C2161, C2221, C2222 * IC7213
OSD: ERR 8415	I^2C fault IC7200 (stereo and NICAM units)	* +14 on IF/Sound module * IC7200 * IC7220
OSD: ERR 8425	I^2C fault IC7213 (NICAM units) I^2C fault IC7220 (Stereo units)	* IC7213/IC7220
OSD: ERR EEPROM	I^2C fault IC7710	* IC7710
OSD: ERR TUNER	I^2C fault tuner (stereo and NICAM units)	* Tuner * TS7003
OSD: ERR CHROMA	I^2C fault IC7309	* supply IC7309 (+9) * IC7309
Flashing LED	Internal fault in μP	* IC7708
OSD: ERR BUS	I^2C bus blocked	* C2714, C2715

Directions for use

1. Service-Default-Mode

The GR2.1 is equipped with a service default mode. The service default mode is a fixed defined mode in which the unit can be placed.

1.1 Mode definition

The definition of the fixed mode in the service default mode is as follows:

- all sound and picture controls are in the central position (with the exception of the volume which is set to low)
- stereo units are tuned to 475.25 MHz
- mono units are tuned to programme 0
- system:
  * PAL BG, PAL/SECAM BG or PAL I for single system units
  * SECAM L for multisystem units.

1.2 Switching on and off

The service default mode is switched on by briefly short-circuiting the pins M33 and M34 (SERVICE) behind the INSTALL key on the carrier panel when switching the unit on with the mains switch. In order to indicate that the unit is in the service default mode, an "SER" appears on the screen. The service default mode can only be switched off by switching the unit to standby. If the unit is switched off and then on again using the mains switch or mains plug, the service default mode remains switched on.

1.3 Operation and extra facilities

In addition to the fact that the unit can be operated normally, in the service default mode two extra functions are available:

- Autostore
  When operating the **install** key on the local control panel, the unit is tuned to the next transmitter frequency. This frequency is also stored under the selected programme number. Therefore the installation menu cannot be accessed in the service default mode!
- Service menu
  The service menu is activated by first pressing the ◿ - key and then at the same time the P+ key on the local control panel. The service menu now appears on the screen. The service menu offers the facility to set various options and make a number of picture tube settings. The various components in the service menu are selected using the coloured keys on the remote control. The various components themselves are adjusted using the + and - keys on the remote control.The values and options set are immediately stored in the EEPROM.

Note 1:
If the service menu does not appear on the screen and the autostore function does not react, then the "LOCK" function is probably activated.
If the autostore function only does not react, the hotel mode is activated.

Note 2:
If a multisystem unit in the service default mode is to be used with the PAL/SECAM BG system, the "MULTI SYSTEM" option can be temporarily switched off.

2. Hotel mode

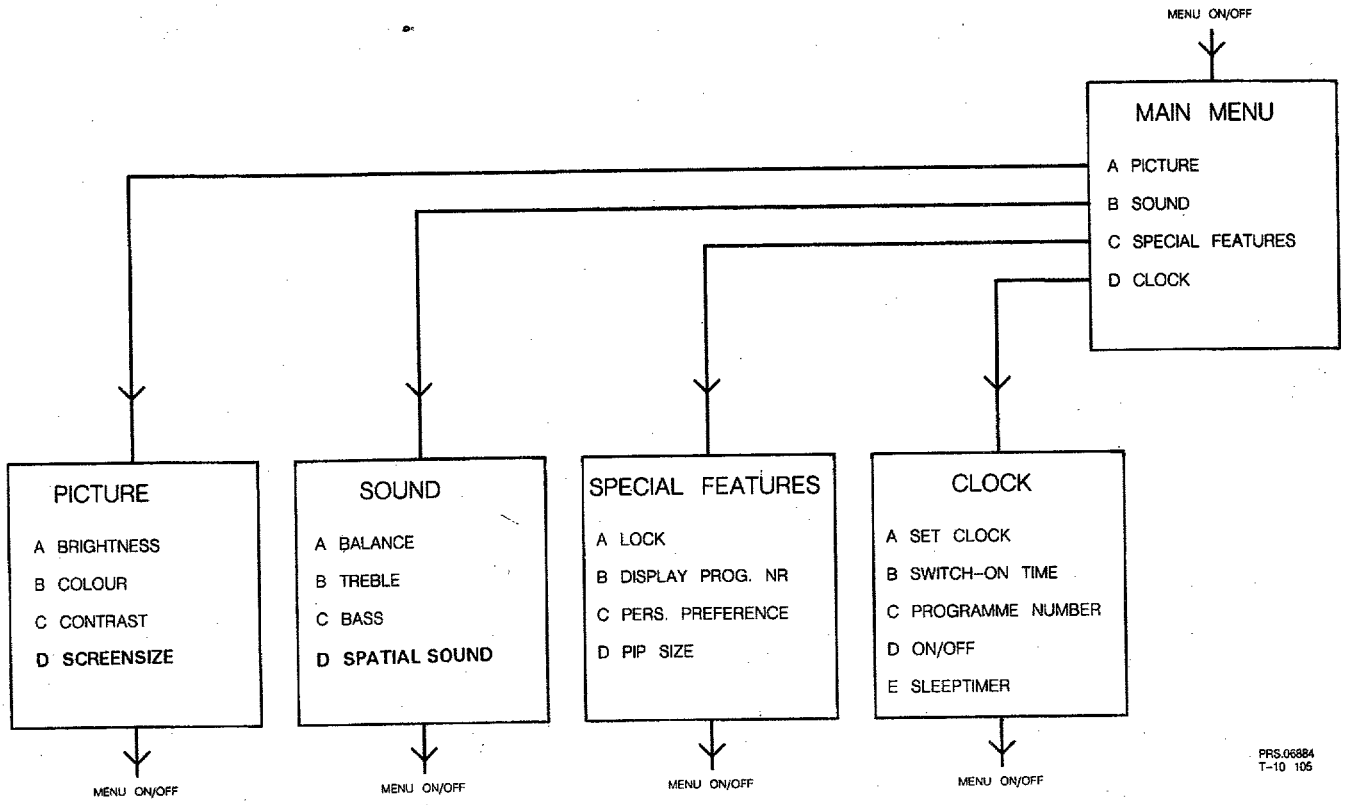
In the hotel mode the volume control is limited to a maximum to be set beforehand and the installation menu cannot be called up.

2.1 Switching the hotel mode on and off

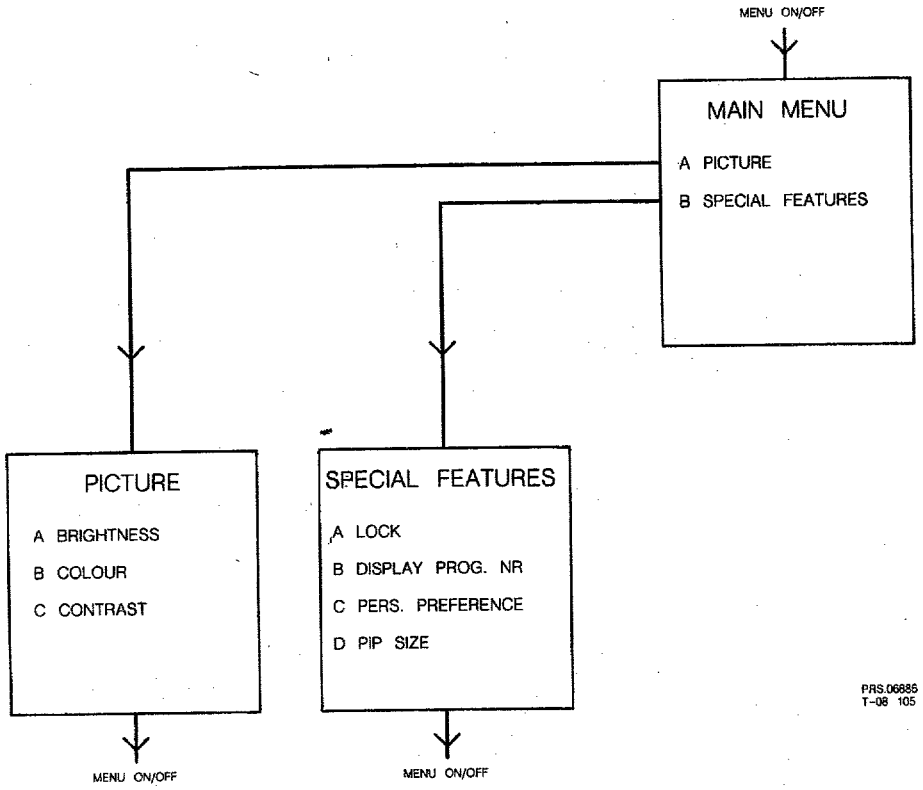
Select programme number 38.
First press ◿ + and keep this depressed while pressing P -.

Survey of menus

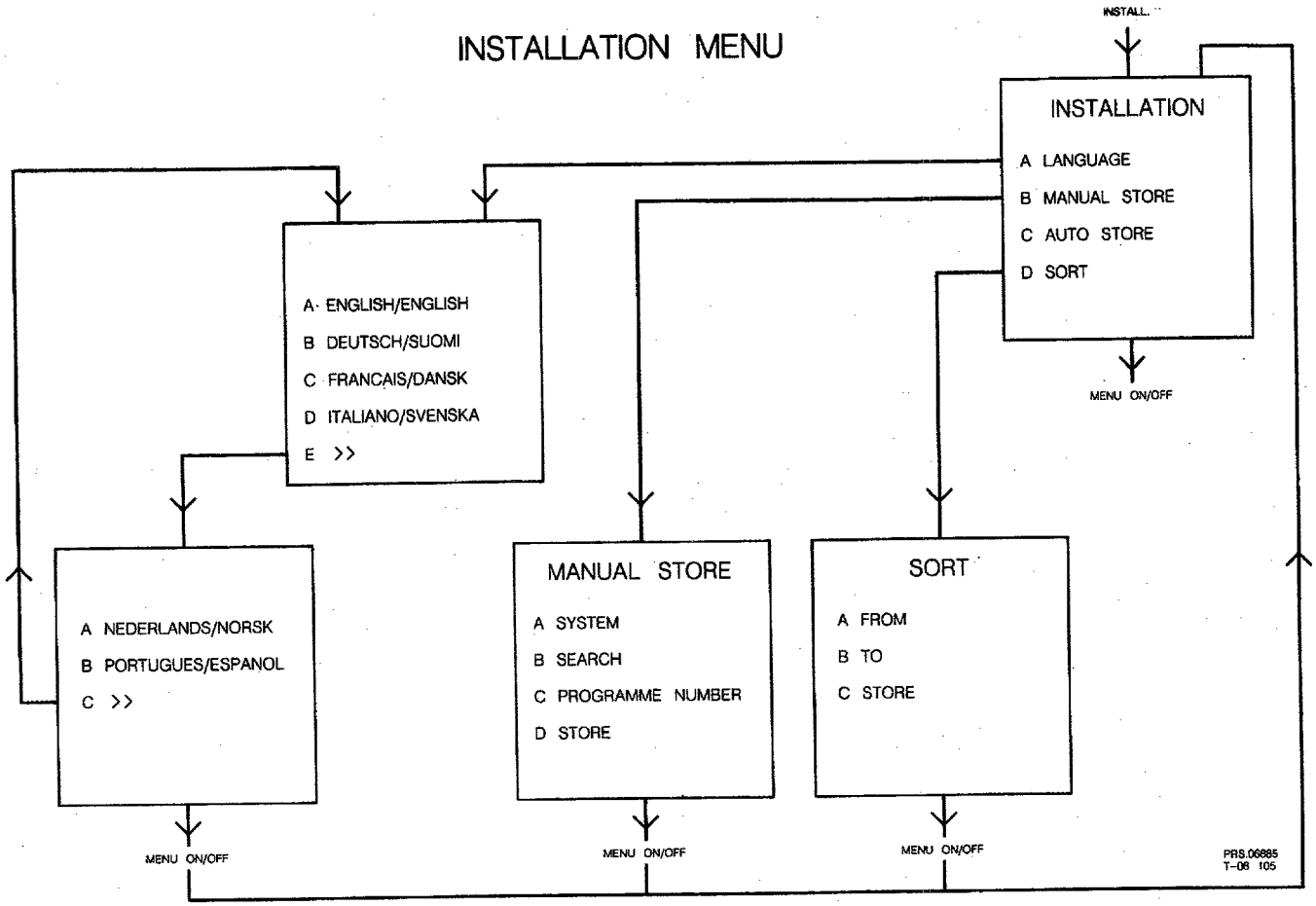
MAIN MENU STEREO



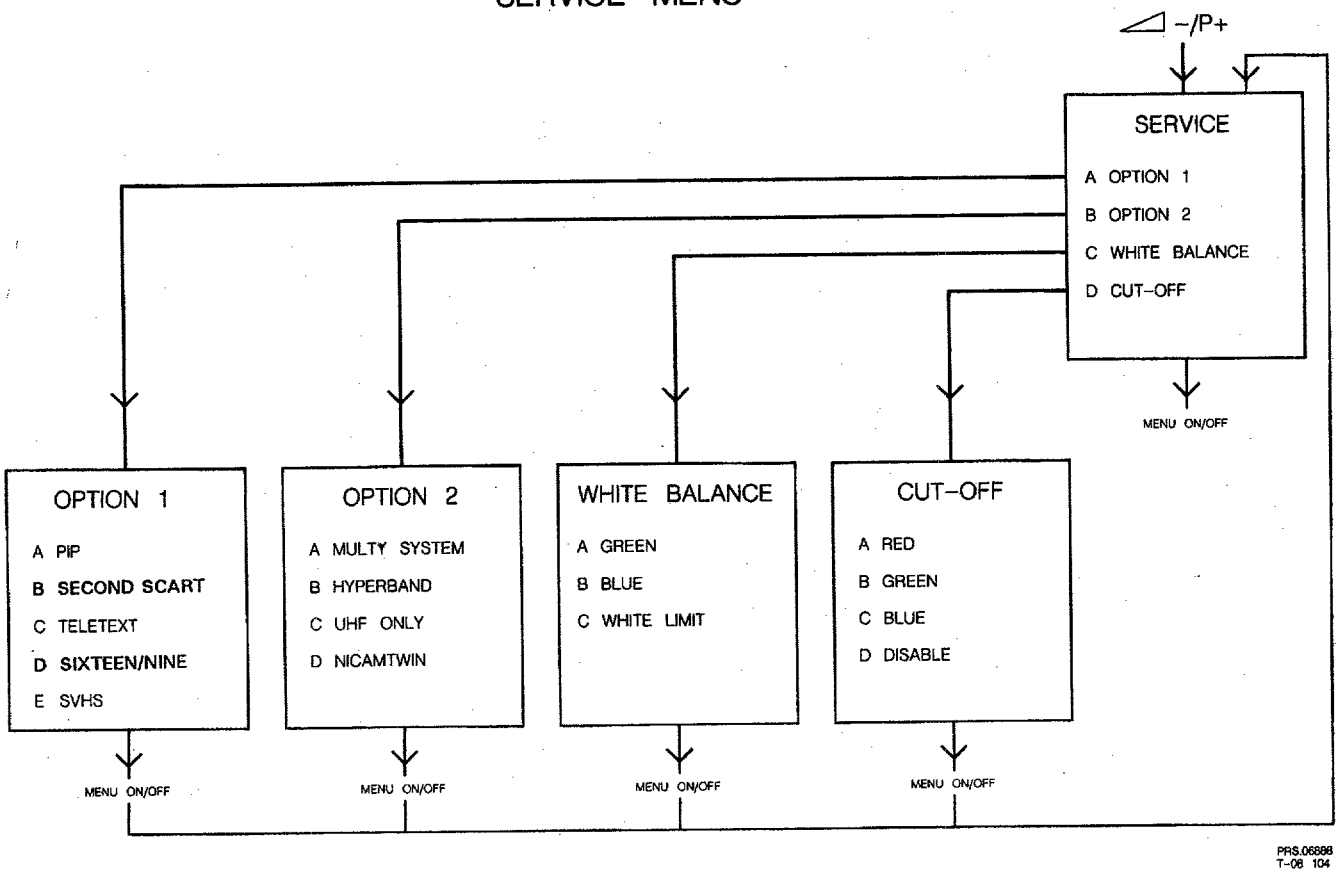
MAIN MENU MONO



INSTALLATION MENU



SERVICE MENU



Main carrier

Mechanical parts

	4822 404 31174	bracket EURO module
	4822 492 70871	spring (wire)
	4822 492 91766	spring fix. TS7625
	4822 256 81766	LED holder
	4822 276 50354	keyboard 5-fold
	4822 466 30395	shielding IC7708
	4822 256 30274	fuse holder
	4822 320 20126	focus cable

0010⚠	4822 265 30389	2p male
0011⚠	4822 265 30389	2p male
0012	4822 265 30351	5p male
0013	4822 265 30378	4p male
0014	4822 290 40295	7p male
0015⚠	4822 265 40421	6p male
0016	4822 264 40207	3p male
0017	4822 267 50591	6p male
0018	4822 264 50148	8p male
0019	4822 264 40239	3p male
0020	4822 264 40207	3p male
0022	4822 267 40666	3p male
0023	4822 264 40207	3p male
0024	4822 264 40207	3p male
0026⚠	4822 265 30951	4p male
0027	4822 265 30351	5p male
0027	4822 265 30899	5p male
0028⚠	4822 265 30877	3p male
0029	4822 265 41086	9p male
0030	4822 264 40207	3P male
0035	4822 267 20387	SVHS-connector
0039	4822 267 31014	headphone socket
0040	4822 267 40878	3p male
0047	4822 267 30631	dual cinch
0049	4822 267 60243	euro-connector

	4822 290 60626	2p female
	4822 290 40285	3p female
	4822 267 50824	4p female
	4822 265 30275	5p female
	4822 267 30546	6p female
	4822 265 40252	7p female
	4822 267 51084	9p female
	4822 267 50637	10p female

Various

1000	4822 210 50124	UV916E/IEC
1000[1]	4822 210 10405	UV917E/IEC
1000[2]	4822 210 10464	U943C/IEC
1000[3]	4822 210 10366	U944/IEC
1240⚠	4822 071 51602	fuse T1.6A
1242⚠	4822 071 51602	fuse T1.6A
1300	4822 242 70304	8,867MHz
1534⚠	4822 071 53151	fuse T315mA
1559⚠	4822 071 51002	fuse T1A
1580⚠	4822 071 51602	fuse T1.6A
1600⚠	4822 070 32002	fuse T2A
1601⚠	4822 071 52502	fuse T2.5A
1702	4822 242 70392	6MHz

⊣⊢

2001	4822 124 40195	150µF 20% 16V
2002	4822 122 31797	22nF 10% 63V
2003	4822 122 31947	100nF 20% 63V
2004	4822 122 33205	12pF 10% 63V
2005	4822 121 42408	220nF 5% 63V
2008	4822 122 31765	100pF 5% 50V
2010	4822 124 40435	10µF 20% 50V
2231	4822 124 41525	100µF 20% 25V
2232	4822 122 32863	22nF 80% 50V
2233	4822 122 32863	22nF 80% 50V
2234	4822 122 32863	22nF 80% 50V
2235	4822 122 32863	22nF 80% 50V
2236	4822 122 31784	4,7nF 10% 50V
2237	4822 122 31947	100nF 20% 63V
2238	4822 122 31784	4,7nF 10% 50V
2238[1]	4822 122 32597	6,8nF 10% 63V
2239	4822 122 31947	100nF 20% 63V
2240	4822 124 40214	1mF 20% 25V
2241	4822 122 31947	100nF 20% 63V
2242	4822 124 40214	1000µF 20% 25V
2243	4822 122 32863	22nF 80% 50V
2245	4822 122 32863	22nF 80% 50V
2246	4822 124 40849	330µF 20% 16V
2246[1]	4822 124 41596	22µF 20% 50V
2248	4822 124 40849	330µF 20% 16V
2249	4822 122 32863	22nF 80% 50V
2250	5322 122 32331	1nF 10% 100V
2250[3]	4822 121 42472	10nF 10% 50V
2251	5322 122 32331	1nF 10% 100V
2251[3]	4822 121 42472	10nF 10% 50V
2252	4822 121 51252	470nF 5% 63V
2254	4822 121 41757	470nF 10% 63V
2255	4822 121 41757	470nF 10% 63V
2256	4822 122 32142	270pF 5% 63V
2257	4822 122 32142	270pF 5% 63V
2262	4822 122 32142	270pF 5% 63V
2263	4822 122 32142	270pF 5% 63V
2264	4822 121 51252	470nF 5% 63V
2265	4822 121 51252	470nF 5% 63V
2266	4822 124 41596	22µF 20% 50V
2300	4822 122 32482	22pF 5% 63V
2301	4822 122 31773	560pF 5% 50V
2303	4822 122 32142	270pF 5% 63V
2304[4]	4822 122 32999	2,2nF 5%
2304	4822 122 31773	560pF 5% 50V
2305	4822 122 32444	33pF 5% 50V
2306	4822 122 31965	220pF 5% 63V
2307	4822 122 31965	220pF 5% 63V
2308	4822 122 32442	10nF 50V
2309	4822 122 32442	10nF 50V
2310	4822 122 32442	10nF 50V
2311	4822 122 33496	100nF 10% 63V
2312	4822 122 32442	10nF 50V
2313	4822 125 50045	20pF
2314	5322 121 42661	330nF 5% 63V
2315	4822 122 33205	12pF 10% 63V
2315[5]	4822 122 32504	15pF 5% 50V
2316	4822 122 31825	27pF 10% 50V
2317	4822 122 33466	82pF 2%
2318	4822 122 32875	100pF 5% 50V
2319	4822 122 31825	27pF 10% 50V
2320	4822 122 31772	47pF 5% 50V
2320[5]	4822 122 31839	82pF 10% 50V
2321	4822 122 31797	22nF 10% 63V
2322	4822 122 31797	22nF 10% 63V
2323	4822 122 32542	47nF 10% 63V
2325	4822 122 32542	47nF 10% 63V
2326[4]	4822 122 33496	100nF 10% 63V
2326	4822 051 10008	jumper
2327	4822 122 32442	10nF 50V
2328[5]	4822 121 41856	22nF 5% 250V
2328	4822 121 42408	220nF 5% 63V
2329[5]	4822 121 41856	22nF 5% 250V
2329	4822 121 42408	220nF 5% 63V
2330	4822 122 31765	100pF 5% 50V
2331	4822 122 31765	100pF 5% 50V
2332	5322 122 31842	330pF 5% 63V
2333	4822 121 42408	220nF 5% 63V
2334	4822 122 31965	220pF 5% 63V
2335	4822 122 31965	220pF 5% 63V
2336	4822 122 31797	22nF 10% 63V
2337	4822 122 31797	22nF 10% 63V
2338	4822 122 31797	22nF 10% 63V
2339	4822 122 33496	100nF 10% 63V
2340	4822 122 31797	22nF 10% 63V
2341	4822 122 31797	22nF 10% 63V
2342	4822 122 33496	100nF 10% 63V
2343	4822 122 33496	100nF 10% 63V
2344	4822 122 33496	100nF 10% 63V
2345	4822 122 31797	22nF 10% 63V
2346	4822 122 31765	100pF 5% 50V
2347	4822 122 31769	18pF 5% 50V
2349	5322 122 31647	1nF 10% 63V
2350	4822 122 31797	22nF 10% 63V
2351	4822 122 31797	22nF 10% 63V
2352	5322 122 31647	1nF 10% 63V
2353	4822 122 33496	100nF 10% 63V
2354	4822 124 40242	1µF 20% 63V
2355	4822 124 40849	330µF 20% 16V
2356	4822 122 31797	22nF 10% 63V
2357	4822 122 31797	22nF 10% 63V
2358	4822 122 31797	22nF 10% 63V
2359	4822 122 31765	100pF 5% 50V
2360	4822 122 33496	100nF 10% 63V
2361	4822 122 33496	100nF 10% 63V
2362	4822 122 33496	100nF 10% 63V
2363	4822 122 31972	39pF 5% 50V
2365	4822 124 40242	1µF 20% 63V
2366	4822 124 41566	3,3µF 20% 50V
2367	4822 124 41596	22µF 20% 50V
2368	4822 122 33205	12pF 10% 63V
2370	4822 121 42408	220nF 5% 63V
2371	4822 122 31825	27pF 10% 50V
2372	4822 122 31825	27pF 10% 50V
2373	4822 122 31825	27pF 10% 50V
2374	4822 122 31772	47pF 5% 50V
2375	4822 122 31765	100pF 5% 50V
2376	4822 122 31765	100pF 5% 50V
2380	4822 122 31766	120pF 5% 50V
2381	4822 122 31766	120pF 5% 50V
2384	4822 122 31765	100pF 5% 50V
2384[10]	4822 122 31772	47pF 5% 50V
2384[6]	4822 051 10008	jumper
2385	4822 122 31765	100pF 5% 50V
2386	4822 122 33481	1,8nF 15%
2450	4822 124 80059	100µF 20% 25V
2451	4822 122 33496	100nF 10% 63V
2456	4822 124 80059	100µF 20% 25V
2457	4822 122 33496	100nF 10% 63V
2458	4822 121 42937	2.7nF 1% 250V
2459	4822 122 33496	100nF 10% 63V
2460[7]	4822 122 32442	10nF 50V
2460[8]	4822 122 31644	2,2nF 10% 63V
2460[9]	4822 122 31784	4,7nF 10% 50V
2461	5322 122 31647	1nF 10% 63V
2462	4822 122 31797	22nF 10% 63V
2464	4822 122 33496	100nF 10% 63V
2465	4822 124 40849	330µF 20% 16V
2466	4822 124 41873	4,7µF 20% 35V
2467	4822 122 33496	100nF 10% 63V
2468	4822 124 41795	1µF 20% 50V

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Main carrier

2469	4822 124 41596	22µF 20% 50V
2470	4822 122 31772	47pF 5% 50V
2471	5322 121 42661	330nF 5% 63V
2473	5322 121 42661	330nF 5% 63V
2475	4822 122 31797	22nF 10% 63V
2500	4822 122 31965	220pF 5% 63V
2500[7]	4822 122 31727	470pF 5% 63V
2501	4822 122 33481	1,8nF 15%
2502	5322 124 41381	22µF 20% 50V
2505	4822 122 32542	47nF 10% 63V
2506[7]	4822 124 80062	470µF 20% 35V
2506	4822 124 80063	680µF 20% 35V
2507	4822 122 31797	22nF 10% 63V
2509	5322 124 41379	2,2µF 20% 50V
2520	4822 124 80058	68µF 20% 25V
2521	4822 122 32891	68nF 10% 63V
2522	5322 121 42661	330nF 5% 63V
2524	4822 124 42167	4,7µF 20% 50V
2526[8]	4822 122 32442	10nF 50V
2526[9]	4822 122 31759	18nF
2528	5322 121 42025	220nF 10% 250V
2531	4822 121 43396	120nF 5% 63V
2531[7]	4822 121 42408	220nF 5% 63V
2532	4822 124 80066	1µF 20% 63V
2532[7]	4822 124 80067	4,7µF 20% 63V
2533	4822 124 80066	1µF 20% 63V
2538	4822 121 43079	4,7nF 5% 250V
2539	4822 124 80057	330µF 20% 16V
2545▲[7]	4822 126 11539	1,2nF 10% 2KV
2545▲	4822 126 10202	1,5nF 10% 2KV
2546▲[9]	4822 121 43076	11nF 5% 1600V
2546▲[7]	4822 121 43065	7,5nF 5% 2KV
2546▲[8]	5322 121 42523	8,2nF 5% 2KV
2547▲	4822 121 40488	22nF 10% 400V
2547▲[7]	5322 121 44151	33nF 10% 400V
2549▲[8]	4822 121 42073	390nF 10% 400V
2549▲[9]	4822 121 42074	470nF 10% 400V
2550▲[7]	4822 121 43148	470nF 10% 2KV
2550▲	4822 121 51527	390nF 5% 250V
2551	4822 124 80069	1µF 20% 160V
2559	4822 124 80059	100µF 20% 25V
2560▲	4822 121 51408	33nF 10% 250V
2563	4822 122 10175	2,2nF 10% 50V
2570	4822 124 80071	22µF 20% 160V
2574	4822 122 10175	2,2nF 10% 50V
2580	4822 124 80061	1mF 20% 25V
2585	5322 124 21731	10µF 20% 50V
2588	4822 122 31644	2,2nF 10% 63V
2590	5322 121 42498	680nF 5% 63V
2600▲	4822 124 41531	470nF 10% 250V
2605▲	4822 124 80052	68µF 20% 385V
2605▲	4822 124 80053	220µF 20% 385V
2607▲	4822 122 40602	1nF 20% 400V
2611	5322 124 41299	68µF 20% 25V
2617	4822 121 43047	1µF 10% 63V
2620	5322 121 42465	68nF 5% 63V
2625	4822 122 40593	1nF 10% 1KV
2626	4822 122 40594	470pF 10% 1KV
2629	4822 122 31784	4,7nF 10% 50V
2630	4822 124 23418	47µF 200V
2630[1]	4822 124 22349	100µF 10% 160V
2630	4822 124 80055	100µF 10% 160V
2631	4822 124 23418	47µF 200V
2631[1]	4822 124 22349	100µF 10% 160V
2632	4822 126 11382	1nF 10% 1KV
2636	4822 122 31644	2,2nF 10% 63V
2640	4822 124 80061	1000µF 20% 25V
2641	4822 124 80061	1000µF 20% 25V
2646▲	4822 124 42153	15µF 20% 50V
2649	4822 122 33496	100nF 10% 63V
2650	4822 122 33496	100nF 10% 63V
2652	5322 122 32331	1nF 10% 100V
2653	5322 122 32331	1nF 10% 100V
2658	5322 122 32838	82nF 10% 63V
2660	4822 124 80061	1mF 20% 25V
2661	4822 124 41506	47µF 20% 16V
2662[7]	5322 122 32056	220pF 2% 100V
2662	4822 122 30107	270pF 2% 100V
2663[7]	4822 122 31081	100pF 2% 100V
2663	5322 122 32344	82pF 2% 100V
2664	5322 124 41379	2,2µF 20% 50V
2670	4822 122 31766	120pF 5% 50V
2671	4822 121 42408	220nF 5% 63V
2675	4822 124 80064	680µF 20% 50V
2675[7]	4822 124 80065	1mF 20% 50V
2676	5322 122 32331	1nF 10% 100V
2701	4822 122 31765	100pF 5% 50V
2702	4822 122 32442	10nF 50V
2703	4822 121 51252	470nF 5% 63V
2704	4822 122 32542	47nF 10% 63V
2705	4822 122 31766	120pF 5% 50V
2706	5322 124 41299	68µF 20% 25V
2708	4822 122 31766	120pF 5% 50V
2709[10]	4822 122 32507	6,8pF 5% 50V
2709	4822 122 32083	8,2pF 5% 50V
2710[10]	4822 122 32507	6,8pF 5% 50V
2710	4822 122 32083	8,2pF 5% 50V
2711	4822 122 31825	27pF 10% 50V
2712	4822 122 31825	27pF 10% 50V
2713	4822 124 41525	100µF 20% 25V
2714	4822 122 31766	120pF 5% 50V
2715	4822 122 31766	120pF 5% 50V
2716	4822 122 33496	100nF 10% 63V
2717	4822 122 31644	2,2nF 10% 63V
2718	4822 122 33496	100nF 10% 63V
2719	5322 121 42386	100nF 5% 63V
2721	4822 122 32442	10nF 50V
2722	4822 122 31947	100nF 20% 63V
2781	4822 122 33496	100nF 10% 63V
2800	4822 124 41506	47µF 20% 16V
2805[10]	4822 122 31766	120pF 5% 50V
2805	4822 122 31772	47pF 5% 50V
2807	4822 124 40433	47µF 20% 25V
2810	4822 122 31784	4,7nF 10% 50V
2849	4822 122 33496	100nF 10% 63V
2875	5322 121 42386	100nF 5% 63V

3001▲	4822 052 10279	27Ω 5% 0,33W
3002	4822 051 10223	22k 2% 0,25W
3003	4822 051 20222	2k2 5% 0,1W
3004	4822 051 10472	4k7 2% 0,25W
3005	4822 051 10102	1k 2% 0,25W
3006	4822 051 10472	4k7 2% 0,25W
3007	4822 051 10102	1k 2% 0,25W
3008	4822 051 10472	4k7 2% 0,25W
3009	4822 051 10102	1k 2% 0,25W
3010	4822 051 10102	1k 2% 0,25W
3011	4822 116 52257	22k 5% 0,5W
3218	4822 116 52228	680Ω 5% 0,5W
3219	4822 116 52228	680Ω 5% 0,5W
3220	4822 051 10392	3k9 2% 0,25W
3221	4822 050 11002	1k 1% 0,4W
3222	4822 116 52234	100k 5% 0,5W
3224	4822 116 52256	2k 2 5% 0,5W
3225	4822 051 10272	2k7 2% 0,25W
3226	4822 051 10333	33k 2% 0,25W
3227	4822 051 10333	33k 2% 0,25W
3228	4822 051 10151	150Ω 2% 0,25W
3229	4822 051 10562	5k6 2% 0,25W
3230	4822 116 52257	22k 5% 0,5W
3231	4822 051 10472	4k7 2% 0,25W
3232	4822 051 10101	100Ω 2% 0,25W
3232[5]	4822 051 10008	jumper
3233	4822 051 10103	10k 2% 0,25W
3234	4822 051 10223	22k 2% 0,25W
3235	4822 051 10223	22k 2% 0,25W
3236[7]	4822 051 10122	1k2 2% 0,25W
3236	4822 051 10562	5k6 2% 0,25W
3237[7]	4822 051 10122	1k2 2% 0,25W
3237	4822 051 10562	5k6 2% 0,25W
3238	4822 051 10122	1k2 2% 0,25W
3239	4822 116 52207	1k 2 5% 0,5W
3240▲	4822 052 10828	8Ω2 5% 0,33W
3241▲	4822 052 10828	8Ω2 5% 0,33W
3242	4822 051 10333	33k 2% 0,25W
3243	4822 051 10333	33k 2% 0,25W
3244	4822 051 10103	10k 2% 0,25W
3245	4822 051 10103	10k 2% 0,25W
3246	4822 050 23301	330Ω 1% 0,6W
3247	4822 116 52175	100Ω 5% 0,5W
3248	4822 050 23301	330Ω 1% 0,6W
3249	4822 116 52175	100Ω 5% 0,5W
3249[5]	4822 116 52193	39Ω 5% 0,5W
3250	4822 050 11002	1k 1% 0,4W
3251	4822 050 11002	1k 1% 0,4W
3253	4822 116 52211	150Ω 5% 0,5W
3254	4822 116 52211	150Ω 5% 0,5W
3255	4822 050 11002	1k 1% 0,4W
3256	4822 050 11002	1k 1% 0,4W
3257	4822 051 10334	330k 2% 0,25W
3258	4822 051 10334	330k 2% 0,25W
3259	4822 051 10334	330k 2% 0,25W
3260	4822 051 10334	330k 2% 0,25W
3261	4822 116 80747	75Ω 5% 0,125W
3262	4822 116 80747	75Ω 5% 0,125W
3263[5]	4822 051 10562	5k6 2% 0,25W
3263	4822 051 10008	jumper
3264[5]	4822 051 10562	5k6 2% 0,25W
3264	4822 051 10008	jumper
3265	4822 050 21008	1Ω 1% 0,6W
3266	4822 050 21008	1Ω 1% 0,6W
3267	4822 051 10103	10k 2% 0,25W
3268	4822 051 10103	10k 2% 0,25W
3300	4822 051 10822	8k2 2% 0,25W
3301	4822 051 10272	2k7 2% 0,25W
3302	4822 051 20222	2k2 5% 0,1W
3303	4822 051 10122	1k2 2% 0,25W
3303[4]	4822 051 10332	3k3 2% 0,25W
3304	4822 051 10182	1k8 2% 0,25W
3305	4822 051 10431	430Ω 2% 0,25W
3306	4822 051 10103	10k 2% 0,25W
3307[10]	4822 051 10681	680Ω 2% 0,25W
3307	4822 051 10821	820Ω 2% 0,25W
3308	4822 051 10331	330Ω 2% 0,25W
3309	4822 051 10331	330Ω 2% 0,25W
3310	4822 116 52286	5k 1 5% 0,5W
3311	4822 051 10391	390Ω 2% 0,25W
3312	4822 101 11186	470Ω LIN 0.1W
3313[4,10]	4822 051 10103	10k 2% 0,25W
3313	4822 051 10332	3k3 2% 0,25W
3314	4822 051 10103	10k 2% 0,25W
3315	4822 051 10911	910Ω 2% 0,25W
3316	4822 051 10105	1M 5% 0,25W

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Main carrier

3317	4822 051 20222	2k2 5% 0,1W
3318	4822 051 10472	4k7 2% 0,25W
3323	4822 116 52272	330k 5% 0,5W
3325	4822 051 10271	270Ω 2% 0,25W
3326	4822 051 10271	270Ω 2% 0,25W
3327	4822 050 11202	1k2 1% 0,4W
3328	4822 051 10473	47k 2% 0,25W
3330	4822 051 10109	10Ω 2% 0,25W
3331	4822 051 10109	10Ω 2% 0,25W
3332▲	4822 050 23901	390Ω 1% 0,6W
3334▲	4822 050 21809	18Ω 1% 0,6W
3335▲	4822 116 52184	18Ω 5% 0,5W
3336▲	4822 052 10189	18Ω 5% 0,33W
3336▲[5]	4822 052 10279	27Ω 5% 0,33W
3337▲	4822 052 10189	18Ω 5% 0,33W
3337▲[5]	4822 052 10279	27Ω 5% 0,33W
3338	4822 050 11002	1k 1% 0,4W
3339	4822 051 10152	1k5 2% 0,25W
3340	4822 050 11002	1k 1% 0,4W
3341	4822 051 10103	10k 2% 0,25W
3342	4822 051 10102	1k 2% 0,25W
3343	4822 051 10104	100k 2% 0,25W
3344	4822 051 10182	1k8 2% 0,25W
3347	4822 116 52219	330Ω 5% 0,5W
3348	4822 116 52219	330Ω 5% 0,5W
3349	4822 116 52219	330Ω 5% 0,5W
3350	4822 050 11002	1k 1% 0,4W
3351	4822 116 52263	2k 7 5% 0,5W
3352	4822 116 52263	2k 7 5% 0,5W
3353	4822 116 52263	2k 7 5% 0,5W
3354	4822 051 10221	220Ω 2% 0,25W
3356	4822 051 10008	jumper
3357	4822 051 10102	1k 2% 0,25W
3358	4822 051 10331	330Ω 2% 0,25W
3359	4822 051 10331	330Ω 2% 0,25W
3360	4822 051 10102	1k 2% 0,25W
3361	4822 051 10102	1k 2% 0,25W
3362	4822 051 10472	4k7 2% 0,25W
3365	4822 116 52245	150k 5% 0,5W
3366	4822 051 10223	22k 2% 0,25W
3367	4822 116 52175	100Ω 5% 0,5W
3368	4822 116 52175	100Ω 5% 0,5W
3369	4822 116 52175	100Ω 5% 0,5W
3370	4822 051 10472	4k7 2% 0,25W
3371	4822 051 10332	3k3 2% 0,25W
3372	4822 051 10472	4k7 2% 0,25W
3373	4822 051 10102	1k 2% 0,25W
3374	4822 050 22703	27k 1% 0,6W
3375	4822 051 10331	330Ω 2% 0,25W
3376	4822 051 10331	330Ω 2% 0,25W
3380	4822 051 10101	100Ω 2% 0,25W
3381	4822 051 10101	100Ω 2% 0,25W
3394	4822 051 10104	100k 2% 0,25W
3395	4822 051 10683	68k 2% 0,25W
3450	4822 116 52238	12k 5% 0,5W
3451	4822 116 52175	100Ω 5% 0,5W
3452	4822 116 52175	100Ω 5% 0,5W
3455▲	4822 051 10102	1k 2% 0,25W
3456	4822 051 10682	6k8 2% 0,25W
3457	4822 101 11191	10k LIN 0.1W
3458	4822 051 10303	30k 2% 0,25W
3459	4822 051 10823	82k 2% 0,25W
3460	4822 051 10333	33k 2% 0,25W
3461	4822 101 11193	470k LIN 0.1W
3463	4822 051 20183	18k 5% 0,1W
3464	4822 051 10123	12k 2% 0,25W
3465	4822 051 10394	390k 2% 0,25W
3466	4822 051 10152	1k5 2% 0,25W
3467[7]	4822 050 21205	1M2 1% 0,6W
3467	4822 116 80692	2M2 5% 0,2W
3468	4822 051 10682	6k8 2% 0,25W
3469	4822 051 10229	22Ω 2% 0,25W
3470	4822 116 52231	820Ω 5% 0,5W
3471	4822 050 19109	91k 1% 0,4W
3473	4822 116 52265	270k 5% 0,5W
3474	4822 051 10392	3k9 2% 0,25W
3483▲	4822 051 10479	47Ω 2% 0,25W
3485	4822 051 20222	2k2 5% 0,1W
3501[7]	4822 051 10101	100Ω 2% 0,25W
3501	4822 051 10759	75Ω 2% 0,25W
3501[10]	4822 051 10829	82Ω 2% 0,25W
3502	4822 050 28201	820Ω 1% 0,6W
3502[10]	4822 053 10122	1k2 5% 1W
3503▲	4822 052 10108	1Ω 5% 0,33W
3503▲[10]	4822 052 10128	1Ω2 5% 0,33W
3503▲[7]	4822 052 10158	1Ω5 5% 0,33W
3504	4822 100 11684	100Ω 10% 0.1W
3505	4822 051 10471	470Ω 2% 0,25W
3506	4822 116 52245	150k 5% 0,5W
3507	4822 116 52233	10k 5% 0,5W
3507[7]	4822 116 52238	12k 5% 0,5W
3508	4822 051 10228	2Ω2 5% 0,25W
3509	4822 051 10228	2Ω2 5% 0,25W
3510	4822 051 10228	2Ω2 5% 0,25W
3511	4822 051 10228	2Ω2 5% 0,25W
3512	4822 051 10109	10Ω 2% 0,25W
3513	4822 050 25601	560Ω 1% 0,6W
3514	4822 051 10182	1k8 2% 0,25W
3515	4822 051 10228	2Ω2 5% 0,25W
3516	4822 101 11192	22k LIN 0.1W
3517	4822 051 10228	2Ω2 5% 0,25W
3518	4822 051 10101	100Ω 2% 0,25W
3519	4822 051 10228	2Ω2 5% 0,25W
3520	4822 116 52211	150Ω 5% 0,5W
3521	4822 101 11189	4,7k LIN 0.1W
3522	4822 051 10152	1k5 2% 0,25W
3523	4822 051 10228	2Ω2 5% 0,25W
3524	4822 051 10683	68k 2% 0,25W
3525[7]	4822 101 11191	10k LIN 0.1W
3525	4822 101 11192	22k LIN 0.1W
3526	4822 051 10104	100k 2% 0,25W
3526	4822 051 10823	82k 2% 0,25W
3527[7]	4822 051 10333	33k 2% 0,25W
3527	4822 051 10125	1M2 5% 0,25W
3528	4822 051 20222	2k2 5% 0,1W
3528[7]	4822 051 10681	680Ω 2% 0,25W
3529	4822 051 10228	2Ω2 5% 0,25W
3530	4822 051 10102	1k 2% 0,25W
3530[7]	4822 051 10008	jumper
3531	4822 051 10104	100k 2% 0,25W
3531	4822 051 10008	jumper
3532	4822 051 10103	10k 2% 0,25W
3532[7]	4822 051 10153	15k 2% 0,25W
3533	4822 051 10822	8k2 2% 0,25W
3534▲	4822 052 10828	8Ω2 5% 0,33W
3535[7]	4822 116 52253	2k 5% 0,5W
3535	4822 116 52231	820Ω 5% 0,5W
3536	4822 051 10822	8k2 2% 0,25W
3538	4822 116 52251	18k 5% 0,5W
3539[7]	4822 053 20434	430k 5% 0,25W
3539	4822 053 20684	680k 5% 0,25W
3540	4822 051 10399	39Ω 2% 0,25W
3542	4822 050 28201	820Ω 1% 0,6W
3543	4822 051 10101	100Ω 2% 0,25W
3545	4822 111 70178	120Ω 5% 5W
3545[7]	4822 116 83618	470Ω 5% 5W
3545[8]	4822 113 80565	180Ω 5% 5W
3549	4822 116 52251	18k 5% 0,5W
3550▲	4822 116 52251	18k 5% 0,5W
3551▲	4822 050 25601	560Ω 1% 0,6W
3552▲	4822 050 25601	560Ω 1% 0,6W
3553▲	4822 052 10561	560Ω 5% 0,33W
3560[9]	4822 116 52247	16k 5% 0,5W
3560[8]	4822 116 52254	20k 5% 0,5W
3560[7.10]	4822 051 10333	33k 2% 0,25W
3570▲	4822 052 10688	6Ω8 5% 0,33W
3582	4822 050 25601	560Ω 1% 0,6W
3585▲	4822 052 10159	15Ω 5% 0,33W
3588▲	4822 052 10561	560Ω 5% 0,33W
3589	4822 050 24701	470Ω 1% 0,6W
3590	4822 116 52234	100k 5% 0,5W
3591	4822 051 10474	470k 2% 0,25W
3592	4822 051 10681	680Ω 2% 0,25W
3603▲	4822 053 21915	9M1 5% 0,5W
3604▲	4822 052 10102	1k 5% 0,33W
3605▲	4822 052 10102	1k 5% 0,33W
3606▲	4822 052 10102	1k 5% 0,33W
3610▲	4822 052 10159	15Ω 5% 0,33W
3610[7]	4822 052 10688	6Ω8 5% 0,33W
3617	4822 116 52213	180Ω 5% 0,5W
3619	4822 116 52182	15Ω 5% 0,5W
3620	4822 053 12121	120Ω 5% 3W
3622[7]	4822 053 11479	47Ω 5% 2W
3622	4822 053 12479	47Ω 5% 3W
3624▲[7]	4822 050 23304	330k 1% 0,6W
3624▲	4822 116 52272	330k 5% 0,5W
3625▲	4822 116 52292	560k 5% 0,5W
3626	4822 113 80565	180Ω 5% 5W
3626[7]	4822 053 12361	360Ω 5% 3W
3627	4822 053 12361	360Ω 5% 3W
3628	4822 051 10334	330k 2% 0,25W
3629	4822 051 10682	6k8 2% 0,25W
3631[7]	4822 050 21204	120k 1% 0,6W
3631	4822 050 22204	220k 1% 0,6W
3634[7]	4822 116 52263	2k7 5% 0,5W
3634	4822 116 52269	3k3 5% 0,5W
3635	4822 101 11187	1k LIN 0,1W
3636	4822 051 10224	220k 2% 0,25W
3637	4822 051 10101	100Ω 2% 0,25W
3647[7]	4822 050 23303	33k 1% 0,6W
3647	4822 050 23603	36k 1% 0,6W
3648	4822 051 10273	27k 2% 0,25W
3649	4822 050 23309	33Ω 1% 0,6W
3658▲	4822 052 10688	6Ω8 5% 0,33W
3659	4822 051 10181	180Ω 2% 0,25W
3660	4822 051 10101	100Ω 2% 0,25W
3661	4822 051 10361	360Ω 2% 0,25W
3662	4822 051 10221	220Ω 2% 0,25W
3663	4822 051 10562	5k6 2% 0,25W
3664	4822 051 10272	2k7 2% 0,25W
3665	4822 051 10103	10k 2% 0,25W
3666	4822 051 10102	1k 2% 0,25W
3667	4822 051 10361	360Ω 2% 0,25W
3668	4822 051 10102	1k 2% 0,25W
3669	4822 051 10102	1k 2% 0,25W
3670	4822 051 10303	30k 2% 0,25W
3671	4822 050 11002	1k 1% 0,4W
3672	4822 051 10103	10k 2% 0,25W
3673	4822 051 10472	4k7 2% 0,25W
3674	4822 051 10112	1k1 2% 0,25W
3675	4822 116 52239	120k 5% 0,5W
3676	4822 051 10103	10k 2% 0,25W
3677	4822 051 10118	1Ω1 5% 0,25W
3701	4822 051 10273	27k 2% 0,25W
3702	4822 051 10153	15k 2% 0,25W
3703	4822 051 10153	15k 2% 0,25W
3704	4822 051 10103	10k 2% 0,25W
3705	4822 051 10102	1k 2% 0,25W
3706	4822 051 10472	4k7 2% 0,25W

Main carrier

3707	4822 051 10223	22k 2% 0,25W
3708	4822 051 10334	330k 2% 0,25W
3710[5]	4822 051 10243	24k 2% 0,25W
3710	4822 051 10008	jumper
3711	4822 116 80176	1Ω 5% 0,5W
3711[5]	4822 116 52244	15k 5% 0,5W
3712[5]	4822 051 10223	22k 2% 0,25W
3712	4822 051 10008	jumper
3713[5]	4822 051 10223	22k 2% 0,25W
3713	4822 051 10008	jumper
3714	4822 051 10105	1M 5% 0,25W
3716	4822 051 10103	10k 2% 0,25W
3717	4822 051 10103	10k 2% 0,25W
3718	4822 116 52215	220Ω 5% 0,5W
3719	4822 116 52215	220Ω 5% 0,5W
3720	4822 116 52215	220Ω 5% 0,5W
3721	4822 051 10103	10k 2% 0,25W
3722	4822 051 10103	10k 2% 0,25W
3723	4822 051 10103	10k 2% 0,25W
3724	4822 051 10103	10k 2% 0,25W
3725	4822 051 10103	10k 2% 0,25W
3726	4822 051 10103	10k 2% 0,25W
3727	4822 116 52175	100Ω 5% 0,5W
3728	4822 116 52175	100Ω 5% 0,5W
3729	4822 051 10911	910Ω 2% 0,25W
3730	4822 051 10221	220Ω 2% 0,25W
3731	4822 051 10103	10k 2% 0,25W
3732	4822 053 11103	10k 5% 2W
3732[7]	4822 053 11332	3k3 5% 2W
3733	4822 050 23902	3k9 1% 0,6W
3733	4822 116 52283	4k7 5% 0,5W
3734[7]	4822 050 23902	3k9 1% 0,6W
3734	4822 116 52283	4k7 5% 0,5W
3735	4822 051 10563	56k 2% 0,25W
3736	4822 116 52175	100Ω 5% 0,5W
3737	4822 050 11002	1k 1% 0,4W
3738	4822 051 10563	56k 2% 0,25W
3741	4822 051 10123	12k 2% 0,25W
3742	4822 051 10332	3k3 2% 0,25W
3743	4822 051 10472	4k7 2% 0,25W
3747	4822 051 10273	27k 2% 0,25W
3748	4822 051 10273	27k 2% 0,25W
3749	4822 051 10273	27k 2% 0,25W
3750	4822 051 10273	27k 2% 0,25W
3751	4822 051 10153	15k 2% 0,25W
3752	4822 051 10153	15k 2% 0,25W
3753	4822 051 10153	15k 2% 0,25W
3754	4822 051 10153	15k 2% 0,25W
3755	4822 051 10101	100Ω 2% 0,25W
3755[5]	4822 051 10008	jumper
3756	4822 051 10101	100Ω 2% 0,25W
3757	4822 051 20222	2k2 5% 0,1W
3758	4822 051 10392	3k9 2% 0,25W
3759	4822 116 52175	100Ω 5% 0,5W
3768	4822 051 10105	1M 5% 0,25W
3770	4822 051 10473	47k 2% 0,25W
3771	4822 116 52251	18k 5% 0,5W
3772	4822 051 10392	3k9 2% 0,25W
3774	4822 051 10103	10k 2% 0,25W
3775	4822 051 10101	100Ω 2% 0,25W
3776	4822 051 10562	5k6 2% 0,25W
3777	4822 116 52264	27k 5% 0,5W
3778	4822 051 10563	56k 2% 0,25W
3779	4822 116 52233	10k 5% 0,5W
3780	4822 051 10103	10k 2% 0,25W
3781	4822 051 10472	4k7 2% 0,25W
3849	4822 116 52218	300Ω 5% 0,5W
3850	4822 116 52189	30Ω 5% 0,5W
3851	4822 116 80747	75Ω 5% 0,125W
3852	4822 116 80747	75Ω 5% 0,125W
3853	4822 116 80747	75Ω 5% 0,125W
3854	4822 116 80747	75Ω 5% 0,125W
3855	4822 116 52201	75Ω 5% 0,5W
3856	4822 051 10101	100Ω 2% 0,25W
3857	4822 051 10331	330Ω 2% 0,25W
3858	4822 051 10331	330Ω 2% 0,25W
3859	4822 051 10331	330Ω 2% 0,25W
3860	4822 116 80176	1Ω 5% 0,5W
3861	4822 051 10562	5k6 2% 0,25W
3866	4822 051 10472	4k7 2% 0,25W
3867	4822 116 80747	75Ω 5% 0,125W
3868	4822 116 80747	75Ω 5% 0,125W
3869	4822 116 52175	100Ω 5% 0,5W
3871	4822 116 52175	100Ω 5% 0,5W
3874	4822 050 21008	1Ω 1% 0,6W
3875	4822 051 10102	1k 2% 0,25W
3879	4822 051 10122	1k2 2% 0,25W
3880	4822 050 11002	1k 1% 0,4W
3880	4822 051 10332	3k3 2% 0,25W
3881[10]	4822 116 52217	270Ω 5% 0,5W
3881	4822 116 52224	470Ω 5% 0,5W
3882[10]	4822 116 52217	270Ω 5% 0,5W
3882	4822 116 52224	470Ω 5% 0,5W
3884	4822 051 10681	680Ω 2% 0,25W
3885	4822 051 10821	820Ω 2% 0,25W
3886	4822 051 10472	4k7 2% 0,25W
3887	4822 116 52289	5k 6 5% 0,5W
3888	4822 116 52207	1k 2 5% 0,5W
3890	4822 051 10103	10k 2% 0,25W

Jumper

4xxx	4822 051 10008	jumper

5001	4822 157 60138	
5240	4822 158 10551	27µH
5242	4822 158 10551	27µH
5301	4822 157 63075	7.95µH
5303	4822 157 53906	47µH
5304	4822 157 63074	7.6µH
5306	4822 320 40081	470 ns
5530	4822 152 20559	390µH
5534⚠	4822 158 10728	coil 25"/28"
5534[7]	4822 157 62771	coil 21"
5541⚠	4822 157 63078	line driver
5545⚠[9]	4822 140 10414	LOT 25"/28"
5545⚠[8]	4822 140 10417	LOT 25"/28"
5545⚠[7]	4822 140 10418	LOT 21"
5549⚠	4822 157 53069	coil balance
5554⚠[7]	4822 157 63161	AT4042/90G 21"
5554⚠	4822 157 63079	AT4042/97 25"/28"
5563	4822 157 51462	10µH
5582	5322 157 52539	15µH
5588⚠	4822 157 52505	33µH
5605⚠	4822 157 53995	100µH
5606⚠	4822 157 53995	100µH
5619	4822 156 21125	3,9µH 25"/28"
5619[7]	4822 157 51235	4µH 21"
5621[7]	4822 157 53903	180µH 21"
5621	4822 157 60412	150µH 25"/28"
5625⚠	4822 148 81168	SOPS trafo 25"/28"
5625⚠[7]	4822 146 31062	SOPS trafo 21"
5630	4822 157 60387	1µH
5631	4822 158 10551	27µH
5632	4822 158 10551	27µH
5661	4822 152 20678	33µH
5703	4822 157 52279	33µH
5801	4822 157 53001	27µH

6245	4822 130 30621	1N4148
6246	4822 130 81139	BZV55-C3V3
6247	4822 130 81139	BZV55-C3V3
6248	4822 130 80446	BAS32L
6249	4822 130 80446	BAS32L
6300	4822 130 80446	BAS32L
6302	4822 130 34382	BZX79-B8V2
6303	4822 130 34382	BZX79-B8V2
6310	4822 130 80954	BZV55-C5V6
6315	4822 130 80446	BAS32L
6316	4822 130 30621	1N4148
6317	4822 130 30621	1N4148
6318	4822 130 80446	BAS32L
6367	4822 130 80884	BZV55-C5V1
6464	4822 130 81015	BZV55-F10
6465[8]	4822 130 61219	BZX79-B10
6465[7]	4822 130 34281	BZX79-B15
6465[9]	4822 130 80239	BZX79-F8V2
6503	4822 130 42488	BYD33D
6504	4822 130 80446	BAS32L
6518	4822 130 80446	BAS32L
6519	4822 130 80446	BAS32L
6546⚠	4822 130 41275	BY228
6547⚠	4822 130 41602	BYW95C
6548	4822 130 30621	1N4148
6551	4822 130 42489	BYD33G
6560	4822 130 80446	BAS32L
6561	4822 130 30864	BZX79-B68
6563	4822 130 80915	BYD74C
6570	4822 130 42489	BYD33G
6571	4822 130 42488	BYD33D
6580	4822 130 82512	BYV29F-400
6580[5]	4822 130 80791	BYV28-200/20
6585	4822 130 42489	BYD33G
6590	4822 130 81141	BZV55-C43
6591	4822 130 30621	1N4148
6592	4822 130 80928	BZX79-C30
6610	4822 130 80446	BAS32L
6611	5322 130 80442	BZV85-C16
6612	4822 130 30621	1N4148
6617	4822 130 31456	BZV85-C5V1
6621	4822 130 42488	BYD33D
6622	4822 130 30621	1N4148
6624	4822 130 31933	1N5061
6625	4822 130 31933	1N5061
6630⚠[7]	4822 130 81175	BYD74G
6630⚠	4822 130 33531	BY229F-600
6640	4822 130 80914	BYD74B
6641	4822 130 80914	BYD74B
6646	4822 130 42488	BYD33D
6648[7]	4822 130 61219	BZX79-B10
6648	4822 130 34488	BZX79-B11
6649	4822 130 30621	1N4148
6660	4822 130 30621	1N4148
6661	4822 130 42488	BYD33D
6662	4822 130 80905	BZV55-F5V1
6663	4822 130 34281	BZX79-B15
6664	4822 130 61219	BZX79-B10
6664[7]	4822 130 30862	BZX79-B9V1
6665	4822 130 80883	BZV55-C4V7
6666	4822 130 80887	BZV55-F36
6666[7]	4822 130 81141	BZV55-C43
6669	4822 130 80446	BAS32L
6670[10]	4822 130 20272	E0102AA
6670	4822 130 20245	SFOR5D43
6675⚠[7]	4822 130 42488	BYD33D
6675⚠	4822 130 80914	BYD74B
6705	4822 130 80905	BZV55-F5V1

Spare parts list / Stückliste / Liste

Main carrier

6707	4822 209 72895	TLUV5320
6708	4822 130 81145	BZV55-F2V4
6709	4822 130 82037	HZT33
7000	5322 130 42012	BC858A
7001	5322 130 42012	BC858A
7002	5322 130 42012	BC858A
7003	4822 130 42133	BC817
7240[5]	4822 209 73253	TDA2613/N1
7240	4822 209 73853	TDA1521/N4
7243	5322 130 42012	BC858A
7244	4822 130 42513	BC858C
7245	5322 130 42136	BC848C
7246	5322 130 42136	BC848C
7247	5322 130 42136	BC848C
7248	4822 130 61207	BC848
7249	4822 130 61207	BC848
7301	4822 130 61207	BC848
7302	5322 130 42012	BC858A
7303	4822 130 61207	BC848
7305	4822 209 30389	TDA4510/V8
7306	4822 209 30011	TDA4650/V4
7307	4822 209 63108	TDA4660/V2
7308	4822 209 71512	TDA4565/V6
7309	4822 209 63733	TDA4680/V5
7310	4822 130 61207	BC848
7311	5322 209 10576	HEF4053BD
7312	5322 209 10576	HEF4053BD
7341	4822 130 61207	BC848
7370	4822 130 61207	BC848
7371	4822 130 61207	BC848
7372	4822 130 61207	BC848
7373	4822 130 61207	BC848
7374	4822 130 61207	BC848
7455	5322 130 42012	BC858A
7470	4822 209 63423	TDA2579B/N2
7500	4822 130 41344	BC337-40
7502	4822 130 60775	2SD1266P
7503	4822 130 61236	BD234
7504	4822 130 61207	BC848
7505	5322 130 42012	BC858A
7530	4822 130 61207	BC848
7533	4822 130 60111	2SA1359
7534	4822 130 44283	BC636
7540	4822 130 41344	BC337-40
7545⚠	4822 130 61265	BU508AF
7546⚠	4822 130 42679	BUT11AF
7591	5322 130 42012	BC858A
7600	4822 209 63735	TDA8385/N2
7614⚠	4822 209 30992	CNR50 selected
7625⚠	4822 130 62735	BUT12AF
7661	5322 130 44921	BD943
7663	4822 130 42513	BC858C
7671	4822 130 61207	BC848
7672	4822 130 61207	BC848
7701	4822 130 61207	BC848
7702	4822 130 61207	BC848
7703	4822 130 61207	BC848
7704	4822 130 61207	BC848
7705	4822 130 61207	BC848
7706	4822 130 61207	BC848
7707	4822 130 61207	BC848
7708[1]	4822 209 63872	TMP47C1237N-U114-L1
7708[1]	4822 209 63947	TMP47C1237N-U111-L2
7708	4822 209 30796	TMP47C1673N-U215-L1
7708	4822 209 30797	TMP47C1673N-U218-L2
7709	4822 130 61207	BC848
7710	4822 209 62098	ST24C02CP
7710[10]	4822 209 62524	X24C16P
7711	4822 130 61207	BC848
7712	4822 130 61207	BC848
7805	4822 130 61207	BC848
7885	4822 130 61207	BC848
7886	4822 130 61207	BC848

Microprocessors:

L1 = English, German, French, Italian, Dutch, Portugues

L2 = English, Finnish, Danish, Swedish, Norvegian, Spanish.

1 Monosets
2 PAL I mono
3 PAL I NICAM
4 Multi system
5 Mono multi France
6 21" PAL only
7 21"
8 non blackline
9 blackline
10 satellite

Mains module

	4822 212 23664	mains module
0010⚠	4822 265 30389	2p male
0032⚠	4822 265 30389	2p male
0033⚠	4822 265 30877	3p male
2601⚠	4822 121 40487	100nF 10% 400V
2602	4822 126 11141	2,2nF 10% 1KV
2604	4822 126 11141	2,2nF 10% 1kV
3601⚠	4822 116 40211	PTC/NTC
3607	4822 050 23901	390Ω 1% 0,6W
5600⚠	4822 157 63073	filter
6602	4822 130 31933	1N5061
6603	4822 130 31933	1N5061
6604	4822 130 31933	1N5061
6605	4822 130 31933	1N5061

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CRT module

	4822 212 23675	CRT module 25"/28" Blackline
	4822 212 23676	CRT module 25"/28" non Blackline
	4822 212 30026	CRT module 25"/28" 16/9
0009	4822 267 40878	3p male
0013	4822 264 40207	3p male
0019	4822 265 30378	4p male
0020	4822 290 40295	7p male
0021⚠	4822 255 70261	CRT socket 25"/28"
0021	4822 255 70251	CRT socket 21"

⊣⊢

2301[7]	4822 122 31769	18pF 5% 50V
2301[8]	4822 122 31825	27pF 10% 50V
2301[9]	4822 122 31972	39pF 5% 50V
2301[10]	4822 122 31772	47pF 5% 50V
2331[7]	4822 122 31769	18pF 5% 50V
2331[8]	4822 122 31825	27pF 10% 50V
2331[9]	4822 122 31972	39pF 5% 50V
2331[10]	4822 122 31772	47pF 5% 50V
2361[7]	4822 122 31769	18pF 5% 50V
2361[8]	4822 122 31825	27pF 10% 50V
2361[9]	4822 122 32444	33pF 5% 50V
2361[10]	4822 122 31772	47pF 5% 50V
2391	4822 121 43878	27pF 2% 500V
2392	4822 124 80067	4,7µF 20% 63V
2392	4822 124 41577	4,7µF 20% 50V
2411	4822 124 80057	330µF 20% 16V
2411	4822 124 40849	330µF 20% 16V
2421	4822 122 31772	47pF 5% 50V
2431	4822 121 41689	0,1µF 10% 250V
2432	4822 124 80056	47µF 20% 16V
2432	4822 124 41506	47µF 20%
2433	5322 121 44356	4,7nF 5% 2KV
2433	5322 121 50885	33nF 5% 1KV
2434	5322 122 32334	220pF 10% 100V
2440	4822 122 33105	56nF 10% 63V
2441	4822 122 33105	56nF 10% 63V

⊣□⊢

3301	4822 051 10131	130Ω 2% 0,25W
3302	4822 051 10362	3k6 2% 0,25W
3302	4822 051 20222	2k20 5% 0,1W
3303	4822 051 10272	2k70 2% 0,25W
3304	4822 116 52239	120k 5% 0,5W
3308	4822 051 10479	47Ω 2% 0,25W
3308[8]	4822 051 10118	1Ω1 5% 0,25W
3310	4822 116 52219	330Ω 5% 0,5W
3311	4822 053 12123	12k 5% 3W
3311	4822 053 12153	15k 5% 3W
3312⚠	4822 052 10271	270Ω 5% 0,33W
3313⚠	4822 052 10271	270Ω 5% 0,33W
3314	4822 050 21502	1k5 1% 0,6W
3315	4822 051 10124	120k 2% 0,25W
3316	4822 051 10124	120k 2% 0,25W
3331	4822 051 10131	130Ω 2% 0,25W
3332	4822 051 10362	3k6 2% 0,25W
3332	4822 051 20222	2k20 5% 0,1W
3333	4822 051 10272	2k7 2% 0,25W
3334	4822 116 52239	120k 5% 0,5W
3339	4822 051 10118	1Ω1 5% 0,25W
3339	4822 051 10479	47Ω 2% 0,25W
3340	4822 116 52219	330Ω 5% 0,5W
3341	4822 053 12153	15k 5% 3W
3342⚠	4822 052 10271	270Ω 5% 0,33W
3343⚠	4822 052 10271	270Ω 5% 0,33W
3344	4822 050 21502	1k5 1% 0,6W
3345	4822 051 10681	680Ω 2% 0,25W
3361	4822 116 52208	130Ω 5% 0,5W
3361[7]	4822 051 10131	130Ω 2% 0,25W
3362[7]	4822 051 10362	3k6 2% 0,25W
3362	4822 051 20222	2k2 5% 0,1W
3363	4822 051 10272	2k7 2% 0,25W
3364	4822 116 52239	120k 5% 0,5W
3368	4822 051 10479	47Ω 2% 0,25W
3369	4822 051 10479	47Ω 2% 0,25W
3369	4822 051 10118	1Ω1 5% 0,25W
3370	4822 116 52219	330Ω 5% 0,5W
3371	4822 053 12153	15k 5% 3W
3371[9,10]	4822 053 12103	10k 5% 3W
3372⚠	4822 052 10271	270Ω 5% 0,33W
3373⚠	4822 052 10271	270Ω 5% 0,33W
3374	4822 050 21502	1k5 1% 0,6W
3391	4822 051 10104	100k 2% 0,25W
3392	4822 051 10104	100k 2% 0,25W
3393	4822 116 52234	100k 5% 0,5W
3393	4822 050 28203	82Ω 1% 0,6W
3393[9]	4822 116 52264	27k 5% 0,5W
3394	4822 116 52267	30k 5% 0,5W
3394[10]	4822 116 52277	39k 5% 0,5W
3395	4822 051 10683	68Ω 2% 0,25W
3396	4822 051 10124	120k 2% 0,25W
3397	4822 051 10124	120k 2% 0,25W
3411	4822 051 10182	1k8 2% 0,25W
3411[7]	4822 051 10152	1k5 2% 0,25W
3412	4822 051 10471	470Ω 2% 0,25W
3413	4822 116 52218	300Ω 5% 0,5W
3413	4822 116 52215	220Ω 5% 0,5W
3414	4822 051 10479	47Ω 2% 0,25W
3414	4822 051 10519	51Ω 5% 0,5W
3415	4822 116 52215	220Ω 5% 0,5W
3421	4822 051 10104	100k 2% 0,25W
3421[10]	4822 051 10184	180k 2% 0,25W
3422	4822 051 10682	6k80 2% 0,25W
3423	4822 051 10474	470k 2% 0,25W
3423[10]	4822 051 10105	1M 5% 0,25W
3431⚠	4822 052 10181	180Ω 5% 0,33W
3432⚠	4822 052 10399	39Ω 5% 0,33W
3433⚠	4822 052 10108	1Ω 5% 0,33W
3434	4822 050 21502	1k5 1% 0,6W
3435	4822 050 21502	1k5 1% 0,6W
3436	4822 050 21805	1M 8 1% 0,6W
3438	4822 051 10273	27k 2% 0,25W
3439	4822 051 10153	15k 2% 0,25W
3440	4822 051 10154	150k 2% 0,25W
3442	4822 051 10123	12k 2% 0,25W
3443	4822 051 10473	47k 2% 0,25W
3444	4822 051 10822	8k20 2% 0,25W
3447	4822 051 10104	100k 2% 0,25W
3448	4822 051 10223	22k 2% 0,25W

jumper

4xxx	4822 051 10008	jumper

⌇

5401	4822 156 20915	33µH
5401	4822 158 10563	SPT0508

⊣▶|

6301	4822 130 80877	BAV103
6331	4822 130 80877	BAV103
6345	4822 130 81015	BZV55-F10
6361	4822 130 80877	BAV103
6411	4822 130 80879	BZV55-C3V0
6421	4822 130 80446	BAS32L

⊣K B

7301	4822 130 41782	BF422
7301[9,10]	4822 130 41773	BF869
7303	4822 130 61207	BC848
7304	4822 130 41782	BF422
7305	4822 130 41646	BF423
7332	4822 130 41782	BF422
7332[9,10]	4822 130 41773	BF869
7333	4822 130 61207	BC848
7334	4822 130 41782	BF422
7335	4822 130 41646	BF423
7345	5322 130 42012	BC858A
7362	4822 130 41782	BF422
7362[9,10]	4822 130 41773	BF869
7363	4822 130 61207	BC848
7364	4822 130 41782	BF422
7365	4822 130 41646	BF423
7391	4822 130 41646	BF423
7411	4822 130 40938	BC548
7421	5322 130 41983	BC858B
7421[10]	4822 130 42513	BC858C
7430	4822 130 61207	BC848
7431	4822 130 61207	BC848
7432	4822 130 61207	BC848
7434	4822 130 61207	BC848

[7]	21"
[8]	non Blackline
[9]	Blackline
[10]	satellite

Spare parts list / Stückliste / List

Euro module

	4822 212 23666	EURO module
0023	4822 265 40442	10P male
0026	4822 265 40442	10P male
0030	4822 265 41086	9P male
0048	4822 267 60247	euro connector
⊣⊢		
2800	4822 121 51252	470nF 5% 63V
2801	4822 121 51252	470nF 5% 63V
2802	4822 121 51252	470nF 5% 63V
2803	4822 121 51252	470nF 5% 63V
2804	4822 122 33496	100nF 10% 63V
2805	4822 122 33496	100nF 10% 63V
2806	4822 122 33496	100nF 10% 63V
2807	4822 124 41506	47µF 20% 16V
2810	4822 122 32142	270pF 5% 63V
2811	4822 122 32142	270pF 5% 63V
2812	4822 122 33496	100nF 10% 63V
2813	4822 122 52342	47nF 10% 63V
2814	4822 122 31759	18nF
2815	4822 122 33496	100nF 10%
2816	4822 122 33496	100nF 10% 63V
2817	4822 122 33496	100nF 10% 63V
2818	4822 122 33496	100nF 10% 63V
2819	4822 124 41525	100µF 20% 25V
2820	5322 121 42386	100nF 5% 63V
2821	4822 124 40433	47µF 20% 25V
2822	4822 124 40435	10µF 20% 50V
2823	4822 122 33496	100nF 10% 63V
2831	4822 124 40272	33µF 20% 16V
2833	4822 122 33496	100nF 10% 63V
2834	4822 122 33496	100nF 10% 63V
▭		
3800	4822 116 52189	30Ω 5% 0,5W
3801	4822 116 80747	75Ω 5% 0,125W
3802	4822 116 52211	150Ω 5% 0,5W
3803	4822 116 52211	150Ω 5% 0,5W
3804	4822 050 11002	1k 1% 0,4W
3805	4822 050 11002	1k 1% 0,4W
3806	4822 051 10334	330k 2% 0,25W
3807	4822 051 10334	330k 2% 0,25W
3808	4822 051 10334	300k 2% 0,25W
3809	4822 051 10334	330k 2% 0,25W
3810	4822 051 10622	6k2 2% 0,25W
3811	4822 051 10182	1k8 2% 0,25W
3812	4822 051 10331	330Ω 2% 0,25W
3813	4822 116 52201	75Ω 5% 0,5W
3814	4822 051 10152	1k5 2% 0,25W
3815	4822 051 10472	4k7 2% 0,25W
3816	4822 116 52296	6k8 5% 0,5W
3819	4822 051 10331	330Ω 2% 0,25W
3820	4822 051 10471	470Ω 2% 0,25W
3821	4822 051 10331	330Ω 2% 0,25W
3822	4822 051 10471	470Ω 2% 0,25W
3823	4822 051 10561	560Ω 2% 0,25W
3824	4822 051 10271	270Ω 2% 0,25W
3825	4822 051 10223	22k 2% 0,25W
3826	4822 051 10102	1k 2% 0,25W
3827	4822 051 10339	33Ω 2% 0,25W
3828	4822 051 20222	2k2 5% 0,1W
3829	4822 051 10821	820Ω 2% 0,25W
3830	4822 051 10683	68k 2% 0,25W
3831	4822 051 10123	12k 2% 0,25W
3832	4822 051 10102	1k 2% 0,25W
3833	4822 051 10279	27Ω 2% 0,25W
3834	4822 051 10279	27Ω 2% 0,25W
3835	4822 051 10221	220Ω 2% 0,25W
3836	4822 051 10271	270Ω 2% 0,25W
3837⚠	4822 052 10278	2Ω7 5% 0,33W
3838	4822 116 80747	75Ω 5% 0,125W
jumper		
4xxx	4822 051 10008	jumper
⌒		
5800	4822 157 51462	10µH
⊣▶		
6800	4822 130 80954	LLZ - C5V6
6801	4822 130 80446	LL4148
6802	4822 130 80446	LL4148
6803	4822 130 30621	1N4148
⊣▭		
7800	5322 130 44921	BD943
7801	5322 209 10576	HEF4053BD
7802	5322 209 10576	HEF4053BD
7820	4822 130 61207	BC848
7821	5322 130 42136	BC848C
7822	5322 130 42012	BC858A
7823	4822 130 61207	BC848
7824	5322 130 42136	BC848C

Mono IF/sound module

	4822 212 23688	IF module multi
	4822 212 23689	IF module PAL/ SECAM BG
	4822 212 23694	IF module PAL I
1010[5]	4822 242 72212	OFWG3950
1010	4822 242 72374	OFWG3950
1010[2]	4822 242 70936	OFW31952
1042	4822 242 72211	5,5MHz
1043	4822 153 30025	6,0MHz
1102	4822 242 70714	5,5MHz
1103	4822 242 71841	6,0MHz
⊣⊢		
2012	4822 124 41577	4,7µF 20% 50V
2013	4822 122 31784	4,7nF 10% 50V
2014[4]	4822 122 31784	4,7µF 10% 50V
2014	4822 122 31797	22nF 10% 63V
2015	5322 121 42498	680nF 5% 63V
2016	4822 122 31784	4,7nF 10% 50V
2017	4822 122 33496	100nF 10% 63V
2018	4822 121 51252	470nF 5% 63V
2019	4822 122 31784	4,7µF 10% 50V
2020	4822 122 33205	12pF 10% 63V
2021	4822 122 33205	12pF 10% 63V
2022	4822 122 33472	22pF 2%
2025	4822 122 31784	4,7nF 10% 50V
2035	4822 122 32507	6,8pF 5% 50V
2036	4822 122 31766	120pF 5% 50V
2037	4822 122 31766	120pF 5% 50V
2038	4822 122 31784	4,7nF 10% 50V
2039	4822 122 32504	15pF 5% 50V
2040	4822 122 31784	4,7nF 10% 50V
2041	4822 122 31784	4,7nF 10% 50V
2042	4822 122 33205	12pF 10% 63V
2044	4822 122 31797	22nF 10% 63V
2047	4822 122 33496	100nF 10% 63V
2048	4822 124 41506	47µF 20% 16V
2049	4822 122 33496	100µF 10% 63V
2050	4822 124 40849	330µF 20% 16V
2055	4822 122 31972	39pF 5% 50V
2056	4822 124 40435	10µF 20% 50V
2057	4822 122 31981	33nF 0,5pF 50V
2058	4822 122 31797	22nF 10% 63V
2059	4822 124 41566	3,3µF 20% 50V
2060	4822 122 31797	22nF 10% 63V
2100	4822 122 33205	12pF 10% 63V
2101	4822 122 33473	27pF 2%
2102	4822 122 32507	6,8pF 5% 50V
2104	4822 122 33474	47pF 2%
2105	4822 122 33465	39pF 2%
2106	4822 122 31792	1,5pF 10% 50V
2107	4822 122 33465	39pF 2%
2108	4822 122 31784	4,7nF 10% 50V
2109	4822 122 33473	27pF 2%
2110	4822 126 10514	0,47pF 5% 63V
2111	4822 122 31784	4,7nF 10% 50V
2113	4822 124 41596	22µF 20% 50V
2114	4822 122 31784	4,7nF 10% 50V
2115	4822 124 41577	4,7µF 20% 50V
2116	4822 124 40435	10µF 20% 50V
2117	4822 124 41576	2,2µF 20% 50V
2118	4822 124 40432	1,5mF 20% 25V
2124	4822 122 32442	10nF 50V
2125	4822 124 40195	150µF 20% 16V
2126	4822 121 43898	8,2nF 10% 50V
2127	5322 121 42661	330nF 5% 63V
2129	5322 121 42661	330nF 5% 63V
2130	5322 121 42661	330nF 5% 63V
2131	4822 122 31797	22nF 10% 63V

Mono IF/sound module (continued)

2132	4822 122 31797	22nF 10% 63V
2133	4822 122 31797	22nF 10% 63V
2134	4822 124 41596	22µF 20% 50V
2135	4822 121 42408	220nF 5% 63V
2136	5322 121 42661	330nF 5% 63V
2137[2,5]	4822 126 11381	820pF 2%
2137	4822 122 31746	1000pF 5% 50V
2138		390pF 2%
2141	4822 124 41577	4,7µF 20% 50V
2143	4822 122 31797	22nF 10% 63V
2150	4822 121 42408	220nF 5% 63V
2151	4822 124 40195	150µF 20% 16V

3012	4822 051 10562	5k6 2% 0,25W
3013	4822 051 10273	27k 2% 0,25W
3014	4822 051 10823	82k 2% 0,25W
3015[5]	4822 051 10104	100k 2% 0,25W
3015	4822 051 10473	47k 2% 0,25W
3016	4822 100 11819	100k LIN 0,1W
3017	4822 051 10823	82k 2% 0,25W
3019	4822 051 10473	47k 2% 0,25W
3020	4822 051 10273	27k 2% 0,25W
3021	4822 051 10223	22k 2% 0,25W
3022	4822 051 10008	jumper
3022[5]	4822 051 10151	150Ω 2% 0,25W
3024	4822 051 20222	2k2 5% 0,1W
3025	4822 051 10562	5k6 2% 0,25W
3030	4822 051 10223	22k 2% 0,25W
3031	4822 051 10474	470k 2% 0,25W
3036	4822 051 10472	4k7 2% 0,25W
3037	4822 051 10392	3k9 2% 0,25W
3038	4822 051 10472	4k7 2% 0,25W
3039	4822 051 10392	3k9 2% 0,25W
3040	4822 051 10472	4k7 2% 0,25W
3041	4822 051 10221	220Ω 2% 0,25W
3043	4822 116 52175	100Ω 5% 0,5W
3044[5]	4822 051 10102	1K 2% 0,25W
3044	4822 051 10271	270Ω 2% 0,25W
3046	4822 051 10681	680Ω 2% 0,25W
3047	4822 051 10822	8k2 2% 0,25W
3048	4822 101 11188	2k 30%LIN 0,1W
3049	4822 051 20183	18k 5% 0,1W
3050	4822 051 10272	2k7 2% 0,25W
3051	4822 051 10563	56k 2% 0,25W
3052	4822 051 10561	560Ω 2% 0,25W
3052[5]	4822 051 10471	470Ω 2% 0,25W
3055	4822 051 10103	10k 2% 0,25W
3056	4822 051 10471	470Ω 2% 0,25W
3058	4822 051 10682	6k8 2% 0,25W
3060	4822 051 10471	470Ω 2% 0,25W
3061	4822 051 10124	120k 2% 0,25W
3062	4822 051 10563	56k 2% 0,25W
3063	4822 051 10272	2k7 2% 0,25W
3064	4822 051 10563	56k 2% 0,25W
3065	4822 051 10223	22k 2% 0,25W
3066	4822 051 10824	820k 2% 0,25W
3067	4822 051 10331	330Ω 2% 0,25W
3068	4822 051 10152	1k5 2% 0,25W
3080[5]	4822 051 10102	1k 2% 0,25W
3080	4822 051 20222	2k25% 0,1W
3080[2]	4822 051 10332	3k3 2% 0,25W
3100	4822 051 10104	100k 2% 0,25W
3101	4822 051 10562	5k6 2% 0,25W
3102	4822 051 20222	2k2 5% 0,1W
3103	4822 051 10104	100k 2% 0,25W
3104⚠	4822 051 10479	47Ω 2% 0,25W
3105	4822 053 11271	270Ω 5% 2W
3107	4822 051 10151	150Ω 2% 0,25W
3108	4822 051 10333	33k 2% 0,25W
3109	4822 051 10223	22k 2% 0,25W
3110	4822 051 10562	5k6 2% 0,25W
3111	4822 051 10562	5k6 2% 0,25W
3112	4822 051 10472	4k7 2% 0,25W
3113	4822 051 10562	5k6 2% 0,25W
3114	4822 051 10182	1k8 2% 0,25W
3114[5]	4822 051 10472	4k7 2% 0,25W
3115	4822 051 10562	5k6 2% 0,25W
3116	4822 116 52263	2k 7 5% 0,5W
3117	4822 051 10104	100k 2% 0,25W
3118	4822 051 20222	2k2 5% 0,1W
3118	4822 051 10472	4k7 2% 0,25W
3119	4822 051 10472	4k7 2% 0,25W
3120	4822 051 10472	4k7 2% 0,25W
3121	4822 051 10104	100k 2% 0,25W
3122	4822 051 10331	330Ω 2% 0,25W
3123[2,5]	4822 051 10563	56k 2% 0,25W
3123	4822 051 10473	47k 2% 0,25W
3124	4822 051 10103	10k 2% 0,25W
3125	4822 051 10103	10k 2% 0,25W
3126	4822 051 10153	15k 2% 0,25W
3127	4822 051 10153	15k 2% 0,25W
3129	4822 051 10822	8k2 2% 0,25W
3130	4822 051 10682	6k8 2% 0,25W
3131	4822 051 10102	1k 2% 0,25W
3132	4822 051 10392	3k90 2% 0,25W
3140	4822 051 10153	15k 2% 0,25W
3141	4822 051 10392	3k9 2% 0,25W
3142	4822 051 10273	27k 2% 0,25W
3143	4822 051 10182	1k8 2% 0,25W
3144	4822 051 10182	1k8 2% 0,25W

jumper

4xxx	4822 051 10008	jumper

5005	4822 157 53539	0,27µH
5010	4822 157 63081	0,56µH
5035	4822 157 53534	0,34µH
5036	4822 157 53609	0,36µH
5036	4822 157 63824	0,36µH 38,9 MHz
5037	4822 157 53537	1,35µH
5038	4822 157 63076	
5039	4822 157 52983	22µH
5041[5]	4822 157 52983	22µH
5041	4822 157 53001	27µH
5042[5]	4822 157 53634	5,6µH
5042	4822 152 20677	
5100	4822 157 53538	
5101	4822 157 53535	0,36µH
5102	4822 157 53536	
5105	4822 157 52511	0,83µH

6005	4822 130 80888	BA682
6036	4822 130 80446	LL4148
6037	4822 130 80888	BA682
6038	4822 130 80888	BA682
6039	4822 130 30621	1N4148
6040	4822 130 80446	LL4148
6041	4822 130 80446	BAS32L
6042	4822 130 80446	LL4148
6043	4822 130 80446	BAS32L
6101	4822 130 80888	BA682
6102	4822 130 80888	BA682
6103	4822 130 80888	BA682
6104	4822 130 80888	BA682
6105	4822 130 80888	BA682
6106	4822 130 80888	BA682
6108	4822 130 80888	BA682
6112	4822 130 80884	BZV55-C5V1

7000	4822 209 72812	TDA2549/C4
7030	5322 130 42012	BC858A
7031	4822 130 61207	BC848
7035	4822 130 44121	BC338
7040	5322 130 42012	BC858A
7041	4822 130 61207	BC848
7100	4822 209 63105	TDA3843/V3
7101	4822 209 30278	TDA3827
7102	4822 130 61207	BC848
7103	5322 130 42136	BC848C
7104	5322 130 41982	BC848B

2	PAL I mono
5	mono multi France

Stereo IF/sound module

	4822 212 23663	IF module multi
	4822 212 23687	IF module non multi
1010	4822 242 72554	OFWG3254
1010[4]	4822 242 80205	OFWK3261
1042	4822 242 72211	5,5MHz
1101	4822 242 70485	5,74MHz
1102	4822 242 71713	6,0MHz
1103	4822 242 70714	5,5MHz
1200	4822 242 80208	10MHz
⊣⊢		
2011	4822 124 41506	47µF 20% 16V
2012	4822 124 41577	4,7µF 20% 50V
2013	4822 122 31784	4,7nF 10% 50V
2014	4822 122 31797	22nF 10% 63V
2015	5322 121 42498	680nF 5% 63V
2016	4822 122 31784	4,7nF 10% 50V
2017	4822 122 33496	100nF 10% 63V
2018	4822 121 51252	470nF 5% 63V
2035[4]	4822 122 32506	5,6pF 5% 50V
2035	4822 051 10472	4k7 2% 0,25W
2036	4822 122 31784	4,7nF 10% 50V
2037	4822 122 31784	4,7nF 10% 50V
2038	4822 122 33496	100nF 10% 63V
2039[4]	4822 122 32083	8,2pF 5% 50V
2039	4822 051 10682	6k80 2% 0,25W
2040	4822 122 31784	4,7nF 10% 50V
2041	4822 122 31784	4,7nF 10% 50V
2042	4822 122 33205	12pF 10% 63V
2044	4822 122 31797	22nF 10% 63V
2047	4822 122 33496	100nF 10% 63V
2048	4822 124 41506	47µF 20% 16V
2049	4822 122 33496	100nF 10% 63V
2050	4822 124 40849	330µF 20% 16V
2051	4822 122 33496	100nF 10% 63V
2055	4822 122 31972	39pF 5% 50V
2056	4822 124 41576	2,2µF 20% 50V
2057	4822 122 31981	33nF 0,5pF 50V
2058	4822 122 31797	22nF 10% 63V
2059	4822 124 41407	0,47µF 20% 63V
2100	4822 122 33205	12pF 10% 63V
2101	4822 122 33473	27pF 2%
2102	4822 122 32507	6,8pF 5% 50V
2104	4822 122 33465	39pF 2%
2105	4822 126 11379	33pF 2%
2106	4822 122 31792	1,5pF 10% 50V
2107	4822 122 33465	39pF 2%
2108	4822 122 31784	4,7nF 10% 50V
2109	4822 122 33473	27pF 2%
2110	4822 122 32507	6,8pF 5% 50V
2111	4822 122 31784	4,7nF 10% 50V
2112	4822 122 32505	2,7pF 5% 50V
2113	4822 124 40435	10µF 20% 50V
2114	4822 122 32442	10nF 50V
2115	4822 124 41509	33µF 20% 35V
2117	4822 124 41576	2,2µF 20% 50V
2118	4822 124 41576	2,2µF 20% 50V
2119	4822 122 31797	22nF 10% 63V
2120	4822 124 41576	2,2µF 20% 50V
2122	4822 122 33496	100nF 10% 63V
2123	4822 124 40242	1µF 20% 63V
2123[4]	4822 124 41577	4,7µF 20% 50V
2124	4822 124 41576	2,2µF 20% 50V
2125	4822 122 10527	910pF 2% 50V
2126	4822 122 31784	4,7nF 10% 50V
2127	4822 122 31746	1000pF 5% 50V
2127[4]	4822 126 11381	820pF 2%
2128	4822 126 11381	820pF 2% NPO
2129	4822 122 33476	220pF 2% 50V
2130	4822 124 40195	150µF 20% 16V
2133	4822 122 31797	22nF 10% 63V
2200	4822 121 51252	470nF 5% 63V
2201	4822 121 51252	470nF 5% 63V
2202	4822 121 51252	470nF 5% 63V
2203	4822 122 31916	5,6nF 10% 63V
2204	4822 121 42408	220nF 5% 63V
2205	4822 122 31947	100nF 20% 63V
2206	4822 121 51252	470nF 5% 63V
2207	4822 121 51252	470nF 5% 63V
2208	4822 124 41509	33µF 20% 35V
2209	4822 124 41509	33µF 20% 35V
2210	4822 122 31947	100nF 20% 63V
2211	4822 124 40198	470µF 20% 16V
2212	4822 124 40435	10µF 20% 50V
2213	4822 122 31782	15nF 10% 50V
2214	4822 122 31782	15nF 10% 50V
2215	4822 122 31981	33nF 0,5pF 50V
2216	4822 122 31916	5,6nF 10% 63V
2217	4822 122 31981	33nF 0,5pF 50V
2218	4822 122 31916	5,6nF 10% 63V
2219	4822 124 41577	4,7µF 20% 50V
2220	5322 121 42498	680nF 5% 63V
2221	5322 121 42498	680nF 5% 63V
2222	4822 124 41643	100µF 20% 16V
2223	4822 122 31746	1000pF 5% 50V
⊏⊐		
3012	4822 051 10562	5k6 2% 0,25W
3013	4822 051 10273	27k 2% 0,25W
3014	4822 051 10823	82k 2% 0,25W
3015	4822 116 52234	100k 5% 0,5W
3016	4822 100 11819	100k LIN 0,1W
3017	4822 051 10823	82k 2% 0,25W
3019	4822 051 10473	47k 2% 0,25W
3020	4822 051 10273	27k 2% 0,25W
3021	4822 051 20183	18k 5% 0,1W
3030	4822 051 10223	22k 2% 0,25W
3031	4822 051 10474	470k 2% 0,25W
3036	3822 051 10472	4l7 2% 0,25W
3037	4822 051 10392	3k9 2% 0,25W
3038	4822 051 10472	4k7 2% 0,25W
3039	4822 051 10472	4k7 2% 0,25W
3040	4822 051 10472	4k7 2% 0,25W
3041	4822 051 10221	220Ω 2% 0,25W
3042[4]	4822 051 10151	150Ω 2% 0,25W
3042	4822 116 90536	120Ω 1% 1/8W
3043	4822 116 52175	100Ω 5% 0,5W
3044[4]	4822 051 10102	1k 2% 0,25W
3044	4822 051 10271	270Ω 2% 0,25W
3046	4822 116 52228	680Ω 5% 0,5W
3047	4822 051 10822	8k2 2% 0,25W
3048	4822 101 11188	2k 30%LIN 0,1W
3049	4822 051 20183	18k 5% 0,1W
3050	4822 051 10272	2k7 2% 0,25W
3051	4822 051 10563	56k 2% 0,25W
3052	4822 051 10102	1k 2% 0,25W
3055	4822 051 10103	10k 2% 0,25W
3056	4822 051 10471	470Ω 2% 0,25W
3060	4822 051 10471	470Ω 2% 0,25W
3061	4822 051 10124	120k 2% 0,25W
3062	4822 051 10563	56k 2% 0,25W
3063	4822 051 10272	2k7 2% 0,25W
3064	4822 051 10224	220k 2% 0,25W
3065	4822 051 10124	120k 2% 0,25W
3065[4]	4822 051 10472	4k7 2% 0,25W
3066	4822 051 10824	820k 2% 0,25W
3070	4822 051 10822	8k20 2% 0,25W
3100	4822 051 10104	100k 2% 0,25W
3101	4822 051 10562	5k6 2% 0,25W
3102	4822 051 20222	2k2 5% 0,1W
3103	4822 051 10104	100k 2% 0,25W
3105	4822 053 11121	120Ω 5% 2W
3106	4822 051 10561	560Ω 2% 0,25W
3107	4822 051 10102	1k 2% 0,25W
3108	4822 051 10561	560Ω 2% 0,25W
3109	4822 051 10562	5k6 2% 0,25W
3110	4822 051 10562	5k6 2% 0,25W
3112	4822 051 10562	5k6 2% 0,25W
3113	4822 051 10562	5k6 2% 0,25W
3115	4822 051 10331	330Ω 2% 0,25W
3117[4]	4822 051 10561	560Ω 2% 0,25W
3117	4822 051 10681	680Ω 2% 0,25W
3119	4822 051 10562	5k6 2% 0,25W
3120	4822 051 10562	5k6 2% 0,25W
3121	4822 051 10562	5k6 2% 0,25W
3122	4822 051 10122	1k2 2% 0,25W
3123	4822 051 10561	560Ω 2% 0,25W
3124	4822 051 10101	100Ω 2% 0,25W
3125	4822 051 10102	1k 2% 0,25W
3126	4822 051 10102	1k 2% 0,25W
3127	4822 051 10152	1k5 2% 0,25W
3128	4822 051 10182	1k8 2% 0,25W
3200	4822 051 10331	330Ω 2% 0,25W
3201	4822 051 10331	330Ω 2% 0,25W
3202	4822 051 10563	56k 2% 0,25W
3203	4822 051 10563	56k 2% 0,25W
3204	4822 101 11191	10k LIN 0.1W
3205▲	4822 052 10229	22Ω 5% 0,33W
3206	4822 051 10478	4Ω7 5% 0,25W
3207	4822 051 10273	27k 2% 0,25W
3208	4822 051 10272	2k7 2% 0,25W
3209	4822 051 10333	33k 2% 0,25W
3210	4822 050 11002	1k 1% 0,4W
3211	4822 051 10101	100Ω 2% 0,25W
3213	4822 116 52233	10k 5% 0,5W
3214	4822 051 10102	1k 2% 0,25W
3215	4822 051 10102	1k 2% 0,25W
3216	4822 051 10101	100Ω 2% 0,25W

jumper

4xxx	4822 051 10008	jumper
⌐¬		
5010	4822 157 63081	0,56µH
5010	4822 157 53302	1µH
5035	4822 157 53534	0,34µH
5036	4822 157 63824	0,36µH 38,9MHz
5036[4]	4822 157 53609	0,36µH
5037	4822 157 53537	1,35µH
5038	4822 157 63076	1,2µH
5039	4822 152 20678	33µH
5042[4]	4822 157 62767	8,2µH
5042	4822 157 53634	5,6µH
5100	4822 157 53538	0,75µH
5101	4822 157 53535	0,36µH
5102	4822 157 53536	0,34µH
5103	4822 157 52511	0,83µH
5104	4822 157 63077	0.25µH
5105	4822 157 52511	0,83µH
⊣◗		
6037	4822 130 80888	BA682
6038	4822 130 80888	BA682
6039	4822 130 30621	1N4148
6040	4822 130 80446	LL4148
6041	4822 130 80446	BAS32L
6042	4822 130 80446	LL4148
6043	4822 130 80446	BAS32L

Spare parts list / Stückliste / Liste

Stereo IF/sound module

6101	4822 130 80888	BA682
6102	4822 130 80888	BA682
6103	4822 130 80888	BA682
6104	4822 130 80888	BA682
6106	4822 130 80888	BA682
6107	4822 130 80888	BA682
6108	4822 130 80888	BA682
6109	4822 130 80446	BAS32L
6220	4822 130 81015	LLZ-C10

7000	4822 209 72812	TDA2549/C4
7030	5322 130 42012	BC858A
7031	4822 130 61207	BC848
7035	4822 130 44121	BC338
7040	5322 130 42012	BC858A
7100	4822 209 63059	TDA 3856/V3
7101	4822 209 63784	TDA3857/V3
7102	4822 130 61207	BC848
7103	5322 130 42012	BC858A
7104	4822 130 61207	BC848
7200	4822 209 63967	TDA8417/V2
7220	4822 209 63734	TDA8425/V7
7232	5322 130 41982	BC848B
7233	4822 130 42513	BC858C

[4] multi system

NICAM IF/sound module

	4822 212 23692	IF MOD. PAL BG
	4822 212 23691	IF MOD. PAL I
1010[3]	4822 242 72553	OFWJ3251
1010	4822 242 72554	OFWG3254
1042[3]	4822 153 30025	6MHz
1042	4822 242 72211	5,5MHz
1100	4822 242 70485	5,74MHz
1105[3]	4822 242 71713	6,0MHz
1105	4822 242 70714	5,5MHz
1116[3]	4822 242 72303	filter 2110Ω
1116	4822 242 72301	filter 2080Ω
1125[3]	4822 242 72347	6,552MHz
1125	4822 242 72302	5,850MHz
1141	4822 242 72304	5,824MHz
1191	4822 071 54001	fuse T400mA
1200	4822 242 80208	10MHz

2011	4822 124 41506	47µF 20% 16V
2012	4822 124 41577	4,7µF 20% 50V
2013	4822 122 31797	22nF 10% 63V
2014	4822 122 31797	22nF 10% 63V
2015	5322 121 42498	680nF 5% 63V
2016	4822 122 31784	4,7nF 10% 50V
2017	4822 122 33496	100nF 10% 63V
2042	4822 122 33205	12pF 10% 63V
2044	4822 122 31797	22nF 10% 63V
2047	4822 122 33496	100nF 10% 63V
2049	4822 122 33496	100nF 10% 63V
2050	4822 124 40849	330µF 20% 16V
2100	4822 124 40242	1µF 20% 63V
2101	4822 122 31746	1000pF 5% 50V
2102[3]	4822 122 32765	820pF 10% 63V
2102	4822 122 31746	1000pF 5% 50V
2104	4822 122 31784	4,7nF 10% 50V
2106	4822 124 41576	2,2µF 20% 50V
2107	4822 124 41576	2,2µF 20% 50V
2108	4822 122 32862	10nF 80% 50V
2109	4822 124 41509	33µF 20% 35V
2110	4822 122 31947	100nF 20% 63V
2116	5322 122 31647	1nF 10% 63V
2119	4822 124 40198	470µF 20% 16V
2120	4822 124 41407	0,47µF 20% 63V
2121	4822 124 41407	0,47µF 20% 63V
2122	4822 122 32862	10nF 80% 50V
2123	4822 122 31774	56pF 5% 50V
2124	4822 125 50045	20pF
2125	4822 122 33205	12pF 10% 63V
2126	4822 122 31769	18pF 5% 50V
2127	4822 124 41407	0,47µF 20% 63V
2128	4822 122 32862	10nF 80% 50V
2129	4822 122 31965	220pF 5% 63V
2130	4822 122 31965	220pF 5% 63V
2131	4822 122 32862	10nF 80% 50V
2132	4822 122 32862	10nF 80% 50V
2133	4822 122 31947	100nF 20% 63V
2134	4822 122 31947	100nF 20% 63V
2135	4822 122 31947	100nF 20% 63V
2136	4822 122 31947	100nF 20% 63V
2137	4822 122 32862	10nF 80% 50V
2138	4822 122 32862	10nF 80% 50V
2139	4822 124 41407	0,47µF 20% 63V
2140	4822 122 31774	56pF 5% 50V
2141	4822 122 31769	18pF 5% 50V
2142	4822 122 32444	33pF 5% 50V
2143	4822 122 32504	15pF 5% 50V
2144	4822 122 32862	10nF 80% 50V
2145	4822 124 41506	47µF 20% 16V
2146	4822 122 32504	15pF 5% 50V
2147	4822 122 32504	15pF 5% 50V
2148	4822 122 33496	100nF 10% 63V
2150	4822 122 31947	100nF 20% 63V
2151	4822 122 31772	47pF 5% 50V
2153	4822 122 32862	10nF 80% 50V
2154	4822 122 31972	39pF 5% 50V
2155	4822 125 50088	27pF
2162	4822 122 31947	100nF 20% 63V
2168	4822 122 33496	100nF 10% 63V
2169	4822 124 41506	47µF 20% 16V
2170[3]	4822 122 32597	6,8nF 10% 63V
2170	4822 122 31759	18nF
2171	4822 122 33608	39nF 10% 63V
2171[3]	4822 122 31782	15nF 10% 50V
2173	4822 122 31773	560pF 5% 50V
2174	4822 122 33498	2,7nF 10% 63V
2175	4822 122 32999	2,2N 5%
2176	4822 121 51252	470nF 5% 63V
2177	4822 122 32863	22nF 80% 50V
2180	4822 122 31759	18nF
2180[3]	4822 122 32597	6,8fF 10% 63V
2181	4822 122 33608	39nF 10% 63V
2181[3]	4822 122 31782	15nF 10% 50V
2183	4822 122 31773	560pF 5% 50V
2184	4822 122 33498	2,7nF 10% 63V
2185	4822 122 32999	2,2nF 5%
2186	4822 121 51252	470nF 5% 63V
2187	4822 122 32863	22nF 80% 50V
2188	4822 124 41506	47µF 20% 16V
2189	4822 122 32863	22nF 80% 50V
2190	4822 122 31947	100nF 20% 63V
2191	4822 124 41643	100µF 20% 16V
2192	4822 122 31947	100nF 20% 63V
2193	4822 124 40849	330µF 20% 16V
2194	4822 122 31947	100nF 20% 63V
2195	4822 124 41506	47µF 20% 16V
2196	4822 122 32862	10nF 80% 50V
2197	4822 124 41506	47µF 20% 16V
2198	4822 121 51252	470nF 5% 63V
2200	4822 121 51252	470nF 5% 63V
2201	4822 121 51252	470nF 5% 63V
2202	4822 122 31766	120pF 5% 50V
2203	4822 124 41509	33µF 20% 35V
2204	4822 124 41509	33µF 20% 35V
2205	4822 122 31947	100nF 20% 63V
2207	4822 121 51252	470nF 5% 63V
2209	4822 121 51252	470nF 5% 63V
2210	4822 124 41577	4,7µF 20% 50V
2211	4822 121 42408	220nF 5% 63V
2212	4822 122 31916	5,6nF 10% 63V
2213	4822 124 40195	150µF 20% 16V
2214	4822 122 31947	100nF 20% 63V
2215	4822 124 41506	47µF 20% 16V
2216	4822 122 31981	33nF 0,5pF 50V
2217	5322 121 42498	680nF 5% 63V
2218	4822 124 41643	100µF 20% 16V
2219	5322 121 42498	680nF 5% 63V
2220	4822 122 31916	5,6nF 10% 63V
2223	4822 122 31916	5,6nF 10% 63V
2224	4822 122 31981	33nF 0,5pF 50V
2225	4822 122 31782	15nF 10% 50V
2226	4822 122 31782	15nF 10% 50V

3012	4822 051 10562	5k6 2% 0,25W
3013	4822 051 10273	27k 2% 0,25W
3014	4822 051 10823	82k 2% 0,25W
3015	4822 051 10104	100k 2% 0,25W
3016	4822 100 11819	100k LIN 0,1W
3019	4822 051 10473	47k 2% 0,25W

NICAM IF/sound module (continued)

3020	4822 051 10273	27k 2% 0,25W
3021	4822 051 20183	18k 5% 0,1W
3030	4822 051 10223	22k 2% 0,25W
3035	4822 051 10472	4k7 2% 0,25W
3041	4822 051 10221	220Ω 2% 0,25W
3042	4822 051 10151	150Ω 2% 0,25W
3042	4822 051 10101	100Ω 2% 0,25W
3043	4822 050 21001	100Ω 1% 0,6W
3044	4822 051 10102	1k 2% 0,25W
3052	4822 051 10102	1k 2% 0,25W
3055	4822 051 10103	10k 2% 0,25W
3056	4822 051 10471	470Ω 2% 0,25W
3058	4822 051 10682	6k8 2% 0,25W
3100	4822 051 10561	560Ω 2% 0,25W
3101	4822 051 10331	330Ω 2% 0,25W
3102	4822 051 10681	680Ω 2% 0,25W
3105	4822 051 10561	560Ω 2% 0,25W
3106	4822 051 10561	560Ω 2% 0,25W
3107	4822 051 10122	1k2 2% 0,25W
3108	4822 051 20222	2k2 5% 0,1W
3109⚠	4822 053 11121	120Ω 5% 2W
3110	4822 051 10102	1k 2% 0,25W
3116	4822 051 10471	470Ω 2% 0,25W
3120	4822 051 10154	150k 2% 0,25W
3121	4822 051 10224	220k 2% 0,25W
3122	4822 051 10471	470Ω 2% 0,25W
3123	4822 051 10511	510Ω 2% 0,25W
3125	4822 051 10102	1k 2% 0,25W
3126	4822 051 10393	39k 2% 0,25W
3139	4822 051 10393	39k 2% 0,25W
3140	4822 051 10471	470Ω 2% 0,25W
3141	4822 051 10102	1k 2% 0,25W
3143	4822 051 10331	330Ω 2% 0,25W
3144⚠	4822 052 10278	2Ω7 5% 0,33W
3150	4822 051 10102	1k 2% 0,25W
3151	4822 051 10103	10k 2% 0,25W
3160	4822 051 10331	330Ω 2% 0,25W
3161	4822 051 10331	330Ω 2% 0,25W
3162	4822 051 10331	330Ω 2% 0,25W
3168⚠	4822 052 10278	2Ω7 5% 0,33W
3170	4822 051 10562	5k6 2% 0,25W
3170[3]	4822 051 10153	15K 2% 0,25W
3171	4822 051 10102	1k 2% 0,25W
3171[3]	4822 051 10272	2K7 2% 0,25W
3172	4822 051 10472	4k7 2% 0,25W
3173	4822 051 10472	4k7 2% 0,25W
3177	4822 051 10822	8k2 2% 0,25W
3177[3]	4822 051 10472	4k7 2% 0,25W
3180	4822 051 10562	5k6 2% 0,25W
3180[3]	4822 051 10153	15k 2% 0,25W
3181	4822 051 10102	1k 2% 0,25W
3181[3]	4822 051 10272	2k7 2% 0,25W
3182	4822 051 10472	4k7 2% 0,25W
3183	4822 051 10472	4k7 2% 0,25W
3188⚠	4822 052 10109	10Ω 5% 0,33W
3190	4822 051 10471	470Ω 2% 0,25W
3191⚠	4822 052 10399	39Ω 5% 0,33W
3192⚠	4822 052 10478	4Ω7 5% 0,33W
3195⚠	4822 052 10109	10Ω 5% 0,33W
3197	4822 051 10331	330Ω 2% 0,25W
3200	4822 101 11191	10k LIN 0.1W
3201	4822 051 10822	8k2 2% 0,25W
3202	4822 051 10512	5k1 2% 0,25W
3203	4822 051 10563	56k 2% 0,25W
3204	4822 051 10563	56k 2% 0,25W
3205⚠	4822 052 10229	22Ω 5% 0,33W
3206	4822 051 10331	330Ω 2% 0,25W
3208	4822 051 10331	330Ω 2% 0,25W
3209	4822 051 10103	10k 2% 0,25W
3210	4822 051 10102	1k 2% 0,25W
3213	4822 051 10478	4Ω7 5% 0,25W
3214	4822 051 10273	27k 2% 0,25W
3215	4822 051 10272	2k7 2% 0,25W
3216	4822 051 10333	33k 2% 0,25W
3217	4822 051 10102	1k 2% 0,25W
3218	4822 051 10101	100Ω 2% 0,25W

jumper

4000[3]	4822 051 10392	3k9 2% 0,25W
4000	4822 051 10393	39k 2% 0,25W
4199	4822 051 10008	jumper

5010	4822 157 53302	
5035	4822 157 53534	0,34µH
5036	4822 157 63824	0,36µH 38,9MHz.
5042[3]	4822 157 53634	5,6µH
5042	4822 157 62767	
5101	4822 157 52511	0,83µH
5102	4822 157 52511	0,83µH
5103	4822 157 63077	0,25µH
5129	4822 157 51238	0,82µH
5130	4822 157 51238	0,82µH
5153	4822 157 53575	3,3µH

6151	5322 130 34953	BB405B
6190	4822 130 80446	BAS32L
6191	4822 130 80954	BZV55-C5V6
6197	4822 130 81027	BZV55-C11
6220	4822 130 81015	BZV55-F10

7000	4822 209 72812	TDA2549/C4
7035	4822 130 44121	BC338
7100	4822 209 63784	TDA3857/V3
7106	4822 130 61207	BC848
7108	5322 130 42012	BC858A
7120	4822 209 62227	TA8662N
7150	4822 209 61114	CF70123
7160	5322 209 10883	PCF8574P
7168	4822 209 73236	TDA1543
7170	4822 209 83163	LM833N
7180	4822 209 83163	LM833N
7190	5322 130 41983	BC858B
7191	4822 130 44121	BC338
7195	4822 130 61207	BC848
7200	4822 209 30147	TDA8415/V2
7213	4822 209 63734	TDA8425/V7
7217	5322 130 41982	BC848B

[3] PAL I NICAM

Teletext module

	4822 212 23697	TXT MOD. europe
	4822 212 23698	TXT MOD. scan
	4822 212 23699	TXT MOD. spain
0021	4822 265 40469	6P male
0022	4822 265 40471	8P male

Various

1801	4822 242 73552	14,875MHz
1802	4822 242 71508	6MHz

2792	4822 122 33496	100µF 10% 63V
2793	4822 122 32542	47nF 10% 63V
2794	4822 122 31769	18pF 5% 50V
2795	4822 122 31769	18pF 5% 50V
2796	4822 122 31769	18pF 5% 50V
2797	4822 122 31769	18pF 5% 50V
2799	4822 122 31965	220pF 5% 63V
2800	4822 124 40178	100µF 20% 10V
2801	4822 122 32442	10nF 50V
2802	4822 122 33205	12pF 10% 63V
2802[Esp]	4822 122 31972	39pF 5% 50V
2803	4822 122 33205	12pF 10% 63V
2803[Esp]	4822 122 31972	39pF 5% 50V
2804	4822 122 31766	120pF 5% 50V
2805	4822 122 31766	120pF 5% 50V
2810	4822 122 33496	100nF 10% 63V
2811	4822 122 33496	100nF 10% 63V
2812	4822 122 33496	100nF 10% 63V
2813	4822 122 32442	10nF 50V
2814	4822 122 31773	560pF 5% 50V
2815	4822 122 33496	100nF 10% 63V
2816	4822 122 31825	27pF 10% 50V
2817	4822 122 32504	15pF 5% 50V
2818	5322 122 31647	1nF 10% 63V
2819	4822 122 31727	470pF 5% 63V
2820	4822 122 31797	22nF 10% 63V
2821	4822 122 32142	270pF 5% 63V
2822	4822 122 31765	100pF 5% 50V
2823	4822 122 31965	220pF 5% 63V
2824	4822 122 32891	68µF 10% 63V
2825	4822 124 41525	100µF 20% 25V
2826	4822 122 32504	15pF 5% 50V
2827	4822 122 32542	47nF 10% 63V
2828	4822 122 32542	47nF 10% 63V
2829	4822 124 41506	47µF 20% 16V
2830	4822 122 32542	47nF 10% 63V
2832	4822 124 41576	2,2µF 20% 50V
2833	4822 124 41576	2,2µF 20% 50V
2834	4822 124 40178	100µF 20% 10V
2836	4822 122 31965	220pF 5% 63V
2845	4822 124 40178	100µF 20% 10V
2849	4822 124 21212	15µF 20% 40V

3795	4822 051 10392	3k9 2% 0,25W
3796	4822 051 10121	120Ω 2% 0,25W
3797	4822 116 52176	10Ω 5% 0,5W
3798	4822 051 10121	120Ω 2% 0,25W
3800	4822 051 10103	10k 2% 0,25W
3802	4822 051 10101	100Ω 2% 0,25W
3803	4822 051 10101	100Ω 2% 0,25W
3804	4822 051 10101	100Ω 2% 0,25W
3805	4822 051 10122	1k2 2% 0,25W
3807	4822 051 10562	5k6 2% 0,25W
3808	4822 051 10103	10K 2% 0,25W
3809	4822 051 10272	2k7 2% 0,25W
3810	4822 051 10333	33K 2% 0,25W
3811	4822 051 10223	22k 2% 0,25W

Spare parts list / Stückliste / Liste

Teletext module (continued)

3812	4822 051 10332	3k3 2% 0,25W
3813	4822 051 10271	270Ω 2% 0,25W
3814	4822 050 11002	1k 1% 0,4W
3815	4822 051 10152	1k5 2% 0,25W
3816	4822 051 10683	68k 2% 0,25W
3817	4822 051 10122	1k2 2% 0,25W
3818	4822 051 10122	1k2 2% 0,25W
3819	4822 051 10122	1k2 2% 0,25W
3820	4822 051 10122	1k2 2% 0,25W
3821	4822 051 10122	1k2 2% 0,25W
3822	4822 051 10122	1k2 2% 0,25W
3823	4822 051 10122	1k2 2% 0,25W
3824	4822 051 10332	3k3 2% 0,25W
3825	4822 051 10332	3k3 2% 0,25W
3826⚠	4822 052 10159	15Ω 5% 0,33W
3827	4822 051 10332	3k3 2% 0,25W
3828	4822 051 10331	330Ω 2% 0,25W
3829	4822 116 52211	150Ω 5% 0,5W
3830	4822 050 28209	82Ω 1% 0,6W
3831	4822 051 10821	820Ω 2% 0,25W
3832	4822 051 10102	1k 2% 0,25W
3833	4822 051 10102	1k 2% 0,25W
3834	4822 051 10681	680Ω 2% 0,25W
3835	4822 051 10561	560Ω 2% 0,25W
3836	4822 051 10473	47k 2% 0,25W
3837	4822 051 10102	1k 2% 0,25W
3838	4822 051 10273	27k 2% 0,25W
3839	4822 051 10122	1k2 2% 0,25W
3840	4822 051 10122	1k2 2% 0,25W
3841	4822 051 10122	1k2 2% 0,25W
3842	4822 051 10122	1k2 2% 0,25W
3843	4822 051 10122	1k2 2% 0,25W
3845	4822 052 10689	68Ω 5% 0,33W
3846	4822 052 10689	68Ω 5% 0,33W
3847	4822 051 10829	82Ω 2% 0,25W
3848	4822 051 10181	180Ω 2% 0,25W
3849	4822 051 10102	1k 2% 0,25W
3900	4822 051 10008	jumper
3901	4822 051 10008	jumper
3902	4822 051 10222	2k2 2% 0,25W
3903	4822 051 10222	2k2 2% 0,25W
3904	4822 051 10008	jumper
3905	4822 051 10008	jumper
3906	4822 051 10008	jumper
3908	4822 051 10008	jumper
3913	4822 051 10008	jumper
3914	4822 051 10008	jumper
3915	4822 051 10008	jumper
3917	4822 051 10008	jumper
3918	4822 051 10008	jumper
3919	4822 051 10008	jumper
3920	4822 051 10008	jumper
3921	4822 051 10008	jumper
3922	4822 051 10008	jumper
3923	4822 051 10008	jumper

5800	4822 156 20966	47µH
5801	4822 157 52849	22µH 10%
5803	4822 157 52825	60 µH
5814	4822 157 53608	10µH
5816	4822 157 52224	15µH
5834	4822 157 53001	27µH 10%
5847	4822 157 51157	3,3µH

6809	4822 130 80446	BAS32L
6810	4822 130 80446	BAS32L
6811	4822 130 80446	BAS32L
6812	4822 130 80446	BAS32L
6813	4822 130 80906	BZV55-C7V5
6814	4822 130 80446	BAS32L
6815	4822 130 80446	BAS32L
6847	4822 130 42489	BYD33G
6848	4822 130 80905	BZV55-F5V1

7800	4822 209 62479	MAB8461P /W196
7801	4822 130 61207	BC848
7802	4822 130 61207	BC848
7803	5322 130 41982	BC848B
7810	4822 209 72681	MSM5165ALRS-12
7811	5322 130 41982	BC848B
7812	5322 130 60159	BC846B
7820	4822 209 30556	SAA5253P/E/M3 /H
7830	4822 209 63645	SAA5231/V7
7831	4822 130 40962	BC558A
7832	4822 130 40937	BC548B
7846	5322 130 44921	BD943
7849	5322 130 42012	BC858A

PIP module

	4822 212 23605	PIP module

Connectors

	4822 265 30828	5P female gold plated
	4822 265 40472	10P female gold plated
	4822 265 40503	5P male

Various

1155	4822 320 40051	delay line DL711
1201	4822 242 70304	crystal 8,867238 MHz
1212	4822 242 70736	crystal 7,159090 MHz

2103	4822 122 32444	33pF 5% 50V
2105	4822 122 31766	120pF 5% 50V
2118	4822 122 31775	680pF 5% 50V
2119	4822 122 31808	150pF 10% 50V
2120	4822 122 31807	1200pF 5% 50V
2125	4822 122 32863	22nF 80% 50V
2155	4822 122 32862	10nF 80% 50V
2158	4822 122 32862	10nF 80% 50V
2160	4822 124 40242	1µF 20% 63V
2161	4822 124 41576	2,2µF 20% 50V
2162	4822 122 32893	100nF 80% 50V
2171	4822 122 31961	68pF 5% 63V
2172	4822 126 11175	22pF 5% 50V
2176	4822 126 11175	22pF 5% 50V
2177	4822 122 31961	68pF 5% 63V
2180	4822 122 31768	180pF 5% 50V
2181	4822 122 31768	180pF 5% 50V
2185	4822 122 32863	22nF 80% 50V
2187	4822 122 32863	22nF 80% 50V
2189	4822 122 31746	1000pF 5% 50V
2196	4822 122 32893	100nF 80% 50V
2197	4822 122 31385	22pF 50V
2201	4822 122 31746	1000pF 5% 50V
2202	4822 125 50045	20pF
2211	4822 122 31746	1000pF 5% 50V
2212	4822 125 50045	20pF
2220	5322 121 42661	330nF 5% 63V
2222	4822 122 32542	47nF 10% 63V
2227	5322 122 31842	330pF 5% 63V
2230	4822 124 40242	1µF 20% 63V
2232	4822 124 41678	22µF 20% 25V
2234	4822 122 33496	100nF 10% 63V
2235	4822 124 41578	6,8µF 20% 50V
2238	4822 121 42937	2.7nF 1% 250V
2239	4822 122 32893	100nF 80% 50V
2250	4822 121 51115	270nF 10% 63V
2251	5322 122 31647	1nF 10% 63V
2255	4822 122 31766	120pF 5% 50V
2260	4822 122 32893	100nF 80% 50V
2270	4822 122 32893	100nF 80% 50V
2340	4822 124 41506	47µF 20% 16V
2345	4822 124 41506	47µF 20% 16V
2350	4822 124 40849	330µF 20% 16V
2351	4822 124 41643	100µF 20% 16V
2380	4822 122 32927	220nF
2381	4822 122 32927	220nF
2382	4822 122 32927	220nF
2383	4822 122 32927	220nF
2384	4822 122 32927	220nF
2385	4822 122 32927	220nF
2390	4822 122 32893	100nF 80% 50V
2399	4822 122 31746	1000pF 5% 50V

PIP module (continued)

2404	4822 122 31965	220pF 5% 63V
2405	4822 122 32862	10nF 80% 50V
2409	4822 122 31965	220pF 5% 63V
2410	4822 122 32862	10nF 80% 50V
2413	4822 122 31765	100pF 5% 50V
2414	4822 122 32862	10nF 80% 50V
2415	4822 122 31965	220pF 5% 63V
2430	4822 122 32893	100nF 80% 50V
2432	4822 122 32893	100nF 80% 50V
2434	4822 122 32893	100nF 80% 50V
2438	4822 121 42472	10nF 10% 50V
2439	4822 121 41856	22nF 5% 250V
2440	4822 122 31965	220pF 5% 63V
2441	4822 122 31727	470pF 5% 63V
2442	4822 124 40242	1µF 20% 63V
2446	4822 122 32893	100nF 80% 50V
2448	4822 122 32893	100nF 80% 50V
2450	4822 122 32856	8,2nF 10% 63V
2455	4822 122 31972	39pF 5% 50V
2459	4822 124 41997	470µF 10V
2466	4822 122 32893	100nF 80% 50V

2444	4822 051 10224	220k 2% 0,25W
3103	4822 051 10821	820Ω 2% 0,25W
3104	4822 051 10821	820Ω 2% 0,25W
3105	4822 051 10362	3k6 2% 0,25W
3106	4822 116 52233	10k 5% 0,5W
3107	4822 051 10103	10k 2% 0,25W
3108	4822 051 10103	10k 2% 0,25W
3155	4822 051 10391	390Ω 2% 0,25W
3156	4822 051 10122	1k2 2% 0,25W
3157	4822 100 11391	330Ω 30% LIN
3158	4822 051 10759	75Ω 2% 0,25W
3170	4822 051 10112	1k1 2% 0,25W
3175	4822 051 10621	620Ω 2% 0,25W
3196	4822 050 11002	1k 1% 0,4W
3200	4822 051 10103	10k 2% 0,25W
3201	4822 051 10103	10k 2% 0,25W
3202	4822 051 10103	10k 2% 0,25W
3211	4822 051 10103	10k 2% 0,25W
3212	4822 051 10103	10k 2% 0,25W
3214	4822 051 10102	1k 2% 0,25W
3220	4822 051 10512	5k1 2% 0,25W
3221	4822 116 52233	10k 5% 0,5W
3222	4822 051 10008	jumper
3227	4822 116 52299	7k5 5% 0,5W
3228	4822 051 10472	4k7 2% 0,25W
3231	4822 051 10682	6k8 2% 0,25W
3232	4822 051 10229	22Ω 2% 0,25W
3233	4822 051 10471	470Ω 2% 0,25W
3234	4822 051 10361	360Ω 2% 0,25W
3235	4822 051 10122	1k2 2% 0,25W
3236	4822 051 10471	470Ω 2% 0,25W
3237	4822 051 10332	3k3 2% 0,25W
3238	4822 051 10333	33k 2% 0,25W
3239	4822 100 11319	4k7 30% LIN
3241	4822 051 10271	270Ω 2% 0,25W
3242	4822 050 11002	1k 1% 0,4W
3250	4822 051 10911	910Ω 2% 0,25W
3265	4822 051 10104	100k 2% 0,25W
3270	4822 051 10103	10k 2% 0,25W
3275	4822 051 10103	10k 2% 0,25W
3276	4822 051 10102	1k 2% 0,25W
3330	4822 051 20008	0Ω 5% 0,1W
3335	4822 051 10271	270Ω 2% 0,25W
3336	4822 051 10432	4k3 2% 0,25W
3337	4822 051 10122	1k2 2% 0,25W
3338	4822 051 10332	3k3 2% 0,25W
3340	4822 051 10202	2k 2% 0,25W
3341	4822 052 10229	22Ω 5% 0,33W
3345	4822 052 10229	22Ω 5% 0,33W
3353	4822 052 10568	5Ω6 5% 0,33W
3354	4822 051 10271	270Ω 2% 0,25W
3390	4822 051 10151	150Ω 2% 0,25W
3391	4822 051 10181	180Ω 2% 0,25W
3394	4822 051 10151	150Ω 2% 0,25W
3395	4822 051 10181	180Ω 2% 0,25W
3398	4822 051 10151	150Ω 2% 0,25W
3399	4822 051 10181	180Ω 2% 0,25W
3404	4822 051 10431	430Ω 2% 0,25W
3405	4822 051 10361	360Ω 2% 0,25W
3410	4822 051 10391	390Ω 2% 0,25W
3411	4822 051 10471	470Ω 2% 0,25W
3412	4822 051 10751	750Ω 2% 0,25W
3414	4822 051 10471	470Ω 2% 0,25W
3416	4822 051 10182	1k8 2% 0,25W
3434	4822 051 10473	47k 2% 0,25W
3436	4822 051 10473	47k 2% 0,25W
3437	4822 051 10101	100Ω 2% 0,25W
3438	4822 051 10513	51k 2% 0,25W
3440	4822 116 52222	390Ω 5% 0,5W
3441	4822 051 10519	51Ω 2% 0,25W
3442	4822 051 10919	91Ω 2% 0,25W
3444	4822 116 52175	100Ω 5% 0,5W
3446	4822 116 52175	100Ω 5% 0,5W
3448	4822 051 10392	3k9 2% 0,25W
3450	4822 051 10471	470Ω 2% 0,25W
3452	4822 051 10471	470Ω 2% 0,25W
3454	4822 051 10471	470Ω 2% 0,25W
3460	4822 116 52231	820Ω 5% 0,5W
3461	4822 116 52259	2k4 5% 0,5W
3462	4822 051 10333	33k 2% 0,25W
3463	4822 116 52299	7k5 5% 0,5W
3464	4822 051 10472	4k7 2% 0,25W
3470	4822 052 10108	1Ω 5% 0,33W
3618	4822 052 10568	5Ω6 5% 0,33W
3621	4822 051 10105	1M 5% 0,25W
3997	4822 051 10339	33Ω 2% 0,25W
3997	4822 051 10279	27Ω 2% 0,25W

Jumper

4001	4822 051 10008	jumper
4002	4822 051 10008	jumper
4003	4822 051 10008	jumper
4004	4822 051 10008	jumper
4005	4822 051 10008	jumper
4006	4822 051 10008	jumper
4007	4822 051 10008	jumper
4010	4822 051 10008	jumper
4011	4822 051 10008	jumper
4012	4822 051 10008	jumper
4048	4822 051 10008	jumper
4100	4822 051 10008	jumper
4201	4822 051 10008	jumper
4401	4822 051 10008	jumper
4402	4822 051 10008	jumper
4403	4822 051 10008	jumper
4404	4822 051 10008	jumper
4406	4822 051 10008	jumper
4407	4822 051 10008	jumper
4415	4822 051 10008	jumper

5118	4822 157 60435	10,3µH 6%
5155	4822 157 60433	7,2µH 6%
5157	4822 157 60434	9,4µH 6%
5170	4822 157 60432	10,3µH
5175	4822 157 60432	10,3µH
5190	4822 157 60432	10,3µH
5400	4822 157 50943	12µH 10%
5402	4822 157 50943	12µH 10%
5403	4822 157 52333	100µH 10%
5406	4822 157 50943	12µH 10%
5408	4822 157 50943	12µH 10%
5410	4822 157 50943	12µH 10%

6300	4822 130 80906	LLZ-C7V5

7103	5322 130 41982	BC848B
7105	5322 130 41982	BC848B
7125	4822 209 63927	TDA4554/V1
7126	4822 209 30389	TDA4510/V8
7200	5322 130 41982	BC848B
7210	5322 130 41982	BC848B
7233	5322 130 41983	BC858B
7234	5322 130 41982	BC848B
7335	5322 130 41982	BC848B
7337	5322 130 41982	BC848B
7338	5322 130 41982	BC848B
7350	4822 130 42616	BC818-40
7380	4822 209 60479	TEA5114A
7400	5322 130 41983	BC858B
7402	5322 130 41983	BC858B
7404	5322 130 41983	BC858B
7406	4822 209 62473	SDA9087
7408	4822 209 63291	SDA9088/2Ω
7410	4822 209 63644	SDA9086-3
7755	4822 209 72363	TDA2579A/N8